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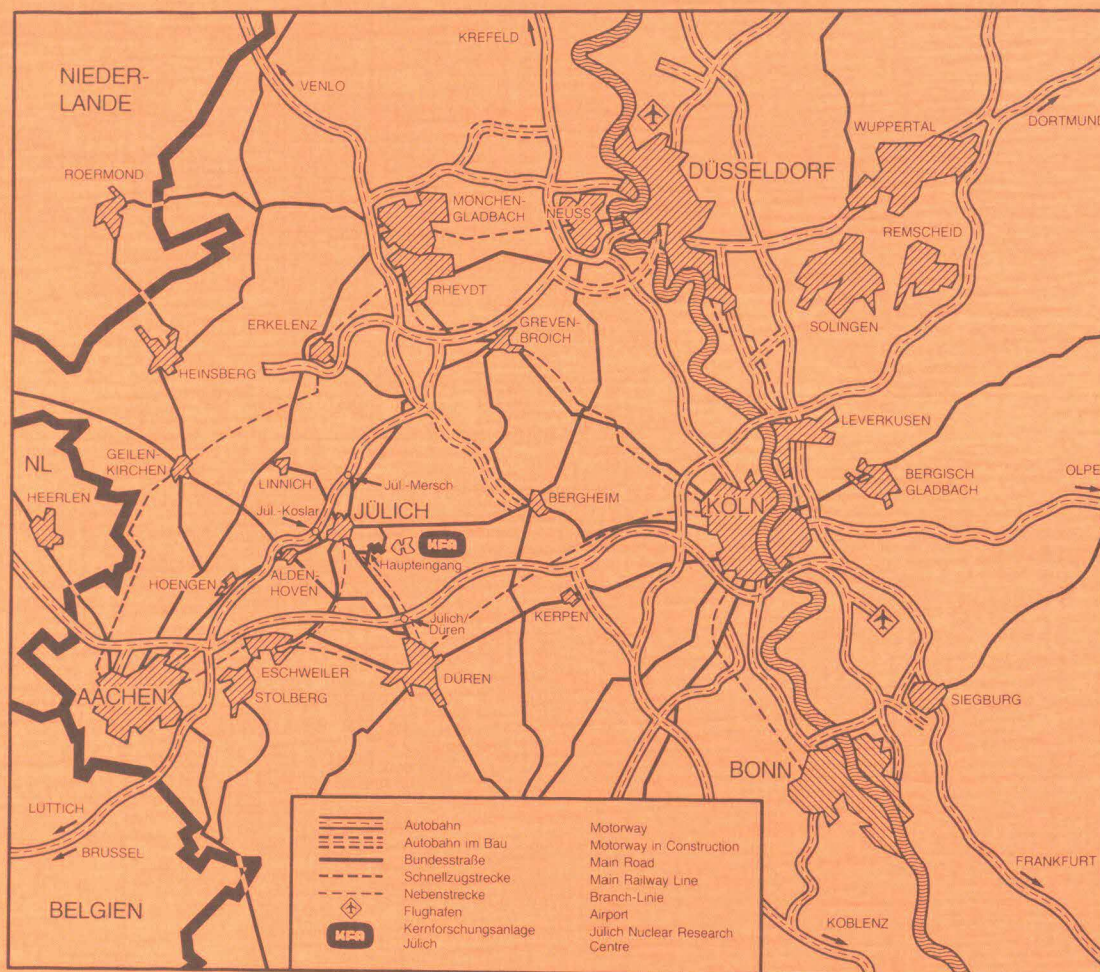
**Tabulated Cross Sections for Secondary
Charged Particles from
100 MeV α -Particle Bombardment
of $^{24,25,26}\text{Mg}$, ^{27}Al , and ^{28}Si Target Nuclei**

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Abstract:

Double differential cross sections and differential cross sections are tabulated for charged particle spectra from nuclear reactions of 100 MeV α -particles with $^{24,25,26}\text{Mg}$, ^{27}Al , and ^{28}Si target nuclei. The energy spectroscopied particles are protons, deuterons, tritons, ^3He and α -particles. The detection angles cover the range from 20° to 110° in the reaction plane.

The experiments were carried out at the Jülich isochronous cyclotron JULIC. The α -beam was focused with the aid of a pair of quadrupole magnets to the center of a scattering chamber of 1 m in diameter. The beam was then refocused by another magnetic quadrupole lens to an external Faraday cup also serving as beam dump. The targets used - except the Si-target - were metallic self-supporting foils made from isotopically enriched (Mg) or isotopically pure materials. They were produced by rolling and their thicknesses are given in Table 1. The Si-target was fabricated from a very pure Si-crystal (99.9 % purity) of natural isotopic distribution by grinding. This crystal was then glued onto a mylar foil as backing.

The secondary charged particles were detected with two solid state detector telescopes mounted 30° apart of each other on the rotatable top of the scattering chamber. Both consist of Ge(Li)-E detectors with thicknesses sufficient to stop 100 MeV protons. One telescope was tailored to detect hydrogen isotopes and the other to detect helium isotopes. Therefore, the ΔE -detectors of the telescopes were a 1000 μm Si-surface barrier detector and a 400 μm Si surface-barrier detector, respectively. The solid angles, defined by 5 mm thick tantalum apertures, were $8.55 \cdot 10^{-5}$ sr and $1.28 \cdot 10^{-4}$ sr and the angle openings were 0.958 degree and 0.731 degree for the "hydrogen telescope" and the "helium telescope", respectively.

Particle identification was performed by feeding the analog ΔE and ($\Delta E + E$) signals into analog to digital converters (ADC's) of the on-line data acquisition system ND 6660 and employing its on-line sorting possibilities. In this method curved two-dimensional gates had to be set around the event islands corresponding to different ejectiles on a $\Delta E - (\Delta E + E)$ -map. Particle-analyzed energy spectra were recorded on magnetic tape after the end of each run.

The setting of the gates was controlled on the screen of the ND6660. Because of the limited channel resolution of this display data were taken from time to time on tape in the list mode and plotted on a high resolution screen together with the gates to control their setting. The dead time of the electronic setup and the data acquisition system was measured by feeding signals into the pre-amplifiers from a pulse generator which was triggered by the down-scaled counting rate of the "helium telescope". The dead time was 0.5 % up to 7 % depending on the counting rate. The measured beam charge was corrected correspondingly.

The telescopes were energy-calibrated by detecting inelastic scattered α -particles on ^{12}C and protons, deuterons and α -particles from elastic scattering processes on $(\text{CH}_2)_x$ - $(\text{CD}_2)_x$ targets. This procedure yielded a linear relation between energy and ADC-channel number. Finally, the counting rate was converted into cross sections. The systematic errors were estimated to be 10 % in solid angle and 2 % in the measured charge. The inhomogenities in the targets were up to 5 % and their total thickness uncertainty 1 %. Because the beam spot of 3 mm in diameter averages over a part of the target area an uncertainty of 3 % was assumed. The cross sections were averaged over 2 MeV wide bins thus reducing counting rate errors. The total cross sections estimated were thus incorrect by typically 4.4 % at an angle of 30° .

The double differential cross sections are compiled in tables 2 to 26. Values below detection thresholds were set to zero. From these cross sections angle integrated yields were obtained by the following approximation.

$$\frac{d\sigma(\epsilon)}{d\epsilon} = 2\pi \sum_{i=1}^N \left(\frac{d^2\sigma(\epsilon, \vartheta_i)}{d\epsilon d\Omega} \right)_i \sin \vartheta_i \cdot \Delta \vartheta_i \quad (1)$$

with

$$\vartheta_{\Delta 1} = \frac{\vartheta_1 + \vartheta_2}{2} ; \Delta \vartheta_i = \frac{\vartheta_{i+2} - \vartheta_{i-1}}{2} \text{ for } 1 < i < N \text{ and}$$

$$\vartheta_{\Delta N} = \pi - \frac{\vartheta_{N-1} + \vartheta_N}{2} ,$$

and N being the number of angles measured. They must obbly the relation $\vartheta_i < \vartheta_{i+1}$. The error introduced by the approximation in Eq.(1) was found to be negligible when compared to the results obtained by fitting Legendry polynomials to the $d^2\sigma/d\epsilon d\Omega$ values followed by integration of these polynomials. The differential cross sections are given in tables 27 to 51. Errors given in the tables are counting rate errors only.

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Table 1:

Properties of the targets used in the experiments.

Target	Isotopic abundance (%)	Thickness (mg/cm ²)
²⁴ Mg	99.9	9.95 self supporting foil
²⁵ Mg	99.2	5.6 self supporting foil
²⁶ Mg	99.4	5.29 self supporting foil
²⁷ Al	100	5.2 self supporting foil
²⁸ Si	92.2	5.99 mylar backing

Table 2														
ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 70^\circ$	$\vartheta = 90^\circ$	$\vartheta = 110^\circ$						
(MeV)	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7897E-05	.1974E-05	.0	.0
4.000	.2702E-02	.2477E-03	.1798E-02	.1453E-03	.1255E-02	.1014E-03	.1208E-02	.7564E-04	.5130E-03	.2395E-04	.4088E-03	.1337E-04	.2377E-03	.4309E-05
6.000	.1274E-01	.5378E-03	.1019E-01	.3460E-03	.8644E-02	.2663E-03	.7248E-02	.1853E-03	.4997E-02	.7474E-04	.4400E-02	.4386E-04	.3936E-02	.1754E-04
8.000	.9402	.4620E-02	.8273	.3118E-02	.5870	.2194E-02	.4948	.1531E-02	.2926	.5718E-03	.1602	.2646E-03	.9514E-01	.8621E-04
10.00	6.403	.1206E-01	5.442	.7996E-02	4.222	.5884E-02	3.384	.4004E-02	1.917	.1464E-02	1.083	.6880E-03	.6083	.2180E-03
12.00	6.158	.1182E-01	4.908	.7594E-02	3.845	.5615E-02	3.024	.3785E-02	1.603	.1339E-02	.8471	.6086E-03	.4549	.1885E-03
14.00	5.948	.1162E-01	4.691	.7424E-02	3.613	.5443E-02	2.740	.3602E-02	1.361	.1234E-02	.6772	.5442E-03	.3410	.1632E-03
16.00	5.064	.1247E-01	4.528	.7750E-02	3.349	.5569E-02	2.451	.3620E-02	1.150	.1205E-02	.5355	.5141E-03	.2537	.1496E-03
18.00	5.872	.1155E-01	4.296	.7105E-02	3.161	.5092E-02	2.249	.3264E-02	.9882	.1051E-02	.4336	.4354E-03	.1908	.1221E-03
20.00	6.066	.1174E-01	4.207	.7030E-02	2.957	.4925E-02	2.052	.3118E-02	.8494	.9744E-03	.3482	.3902E-03	.1432	.1057E-03
22.00	5.936	.1161E-01	4.063	.6909E-02	2.742	.4742E-02	1.899	.2999E-02	.7326	.9049E-03	.2788	.3491E-03	.1067	.9130E-04
24.00	5.730	.1141E-01	3.836	.6714E-02	2.601	.4619E-02	1.731	.2863E-02	.6368	.8437E-03	.2236	.3126E-03	.8031E-01	.7921E-04
26.00	5.557	.1123E-01	3.686	.6581E-02	2.425	.4460E-02	1.557	.2716E-02	.5510	.7848E-03	.1793	.2800E-03	.5916E-01	.6798E-04
28.00	5.373	.1105E-01	3.472	.6387E-02	2.216	.4263E-02	1.384	.2560E-02	.4749	.7286E-03	.1415	.2488E-03	.4375E-01	.5846E-04
30.00	5.274	.1163E-01	3.319	.6635E-02	2.075	.4383E-02	1.243	.2578E-02	.3987	.7093E-03	.1124	.2356E-03	.3229E-01	.5236E-04
32.00	4.910	.1056E-01	3.141	.6074E-02	1.876	.3922E-02	1.101	.2284E-02	.3414	.6177E-03	.8748E-01	.1956E-03	.3215E-01	.4253E-04
34.00	4.734	.1037E-01	2.921	.5859E-02	1.713	.3748E-02	.9708	.2144E-02	.2860	.5654E-03	.6746E-01	.1717E-03	.1671E-01	.3613E-04
36.00	4.420	.1002E-01	2.669	.5600E-02	1.550	.3566E-02	.8555	.2013E-02	.2390	.5169E-03	.5200E-01	.1508E-03	.1174E-01	.3029E-04
38.00	4.153	.9711E-02	2.502	.5422E-02	1.393	.3380E-02	.7475	.1882E-02	.2015	.4746E-03	.4103E-01	.1339E-03	.8317E-02	.2549E-04
40.00	3.889	.9396E-02	2.254	.5146E-02	1.230	.3176E-02	.6461	.1749E-02	.1627	.4264E-03	.3068E-01	.		

Table 3

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 70^\circ$	$\vartheta = 90^\circ$	$\vartheta = 110^\circ$
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.1930E-02	.2093E-03	.9987E-03	.1083E-03	.1952E-02	.1265E-03	.1852E-02	.9367E-04
16.00	1.587	.6377E-02	1.193	.3561E-02	.9746	.3004E-02	.7411	.1991E-02
18.00	2.175	.7027E-02	1.636	.4384E-02	1.200	.3138E-02	.8924	.2056E-02
20.00	2.097	.6900E-02	1.631	.4378E-02	1.189	.3123E-02	.8725	.2033E-02
22.00	2.113	.6527E-02	1.605	.4342E-02	1.141	.3060E-02	.8286	.1981E-02
24.00	2.079	.6870E-02	1.514	.4218E-02	1.087	.2986E-02	.7937	.1939E-02
26.00	2.025	.6781E-02	1.459	.4140E-02	1.061	.2950E-02	.7441	.1877E-02
28.00	1.951	.6655E-02	1.418	.4082E-02	1.021	.2894E-02	.7192	.1846E-02
30.00	1.907	.6491E-02	1.406	.4319E-02	1.015	.3065E-02	.6672	.1889E-02
32.00	1.901	.6570E-02	1.390	.4041E-02	1.001	.2865E-02	.6359	.1736E-02
34.00	1.953	.6658E-02	1.379	.4025E-02	.9530	.2796E-02	.5897	.1671E-02
36.00	2.037	.6801E-02	1.374	.4018E-02	.9178	.2744E-02	.5660	.1637E-02
38.00	2.024	.6779E-02	1.343	.3972E-02	.8837	.2692E-02	.5131	.1559E-02
40.00	2.038	.6803E-02	1.340	.3967E-02	.8299	.2609E-02	.4743	.1499E-02
42.00	2.095	.6896E-02	1.318	.3935E-02	.8098	.2577E-02	.4341	.1434E-02
44.00	2.119	.7370E-02	1.298	.4149E-02	.7606	.2654E-02	.3991	.1461E-02
46.00	2.189	.7035E-02	1.285	.3886E-02	.7140	.2420E-02	.3629	.1311E-02
48.00	2.035	.6797E-02	1.198	.3752E-02	.6554	.2319E-02	.3118	.1215E-02
50.00	2.101	.6906E-02	1.182	.3726E-02	.6231	.2261E-02	.2934	.1179E-02
52.00	1.883	.6538E-02	1.005	.3437E-02	.5251	.2075E-02	.2512	.1091E-02
54.00	1.956	.6644E-02	1.014	.3452E-02	.5092	.2044E-02	.2386	.1063E-02
56.00	2.002	.6743E-02	.9905	.3411E-02	.4770	.1978E-02	.2096	.9965E-03
58.00	1.954	.7076E-02	.9338	.3519E-02	.4280	.1991E-02	.1876	.1002E-02
60.00	1.828	.6442E-02	.9004	.3253E-02	.4137	.1842E-02	.1640	.8815E-03
62.00	1.642	.6106E-02	.7992	.3064E-02	.3323	.1651E-02	.1307	.7868E-03
64.00	1.484	.5805E-02	.6687	.2803E-02	.2772	.1508E-02	.1303	.7856E-03
66.00	1.324	.5482E-02	.6242	.2708E-02	.3097	.1594E-02	.9019E-01	.6536E-03
68.00	1.119	.5040E-02	.6807	.2828E-02	.2037	.1293E-02	.1074	.7133E-03
70.00	1.176	.5167E-02	.3849	.2127E-02	.2319	.1379E-02	.7022E-01	.5767E-03
72.00	.6799	.4175E-02	.4975	.2569E-02	.2206	.1429E-02	.2439E-01	.3611E-03
74.00	1.054	.4893E-02	.5589	.2563E-02	.4936E-01	.6362E-03	.1450E-01	.2620E-03
76.00	.5160	.3740E-02	.1260	.1217E-02	.4043E-01	.5759E-03	.1884E-01	.2988E-03
78.00	.2412	.2340E-02	.1117	.1145E-02	.2133E-01	.4183E-03	.1208E-02	.7564E-04
80.00	.2061	.2163E-02	.5433E-01	.7990E-03	.7250E-02	.2438E-03	.2416E-03	.3383E-04
82.00	.3497	.2818E-02	.1638E-01	.4387E-03	.2231E-02	.1353E-03	.8053E-04	.1953E-04
84.00	.6562E-02	.3860E-03	.2996E-02	.1876E-03	.1394E-03	.3382E-04	.0	.0
86.00	.4632E-02	.3243E-03	.9987E-03	.1083E-03	.0	.0	.0	.0
88.00	.3860E-03	.9361E-04	.1997E-03	.4844E-04	.1394E-03	.3382E-04	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 4

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.00	.9649E-02	.4681E-03	.2397E-02	.1678E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.00	.1254	.1688E-02	.9248E-01	.1042E-02	.6274E-01	.7173E-03	.4944E-01	.4840E-03	.2193E-01	.1566E-03	.5367E-02	.4844E-04	.1163E-02	.9533E-05
24.00	.5419	.3508E-02	.3949	.2154E-02	.2841	.1527E-02	.2197	.1020E-02	.9187E-01	.3204E-03	.2305E-01	.1004E-03	.4587E-02	.1893E-04
26.00	.6125	.3729E-02	.4434	.2283E-02	.3155	.1609E-02	.2463	.1080E-02	.9440E-01	.3248E-03	.2329E-01	.1009E-03	.4292E-02	.1831E-04
28.00	.6338	.3793E-02	.4442	.2285E-02	.3345	.1656E-02	.2438	.1075E-02	.9216E-01	.3209E-03	.2053E-01	.9474E-04	.3251E-02	.1594E-04
30.00	.6221	.3993E-02	.4544	.2455E-02	.3253	.1736E-02	.2447	.1144E-02	.8613E-01	.3297E-03	.1774E-01	.9357E-04	.2609E-02	.1517E-04
32.00	.6403	.3813E-02	.4718	.2354E-02	.3320	.1650E-02	.2433	.1073E-02	.8038E-01	.2997E-03	.1511E-01	.8128E-04	.1858E-02	.1205E-04
34.00	.6415	.3816E-02	.4474	.2293E-02	.3359	.1660E-02	.2380	.1062E-02	.7538E-01	.2903E-03	.1216E-01	.7292E-04	.1288E-02	.1003E-04
36.00	.6535	.3852E-02	.4478	.2294E-02	.3261	.1635E-02	.2379	.1062E-02	.6858E-01	.2769E-03	.9893E-02	.6577E-04	.9734E-03	.8720E-05
38.00	.6461	.3830E-02	.4306	.2249E-02	.3412	.1673E-02	.2262	.1035E-02	.6654E-01	.2727E-03	.8436E-02	.6073E-04	.7437E-03	.7622E-05
40.00	.6284	.3777E-02	.4452	.2287E-02	.3271	.1638E-02	.2308	.1046E-02	.5864E-01	.2560E-03	.6311E-02	.5253E-04	.4728E-03	.6077E-05
42.00	.6623	.3878E-02	.4486	.2296E-02	.3329	.1652E-02	.2260	.1035E-02	.5227E-01	.2417E-03	.5575E-02	.4937E-04	.3161E-03	.4969E-05
44.00	.6627	.4121E-02	.4308	.2390E-02	.3306	.1750E-02	.2160	.1075E-02	.4843E-01	.2472E-03	.4415E-02	.4668E-04	.2582E-03	.4772E-05
46.00	.7025	.3994E-02	.4580	.2320E-02	.3299	.1645E-02	.2109	.9995E-03	.3907E-01	.2090E-03	.3575E-02	.3954E-04	.1222E-03	.3089E-05
48.00	.6897	.3957E-02	.4518	.2304E-02	.3137	.1604E-02	.2011	.9760E-03	.3407E-01	.1951E-03	.2520E-02	.3319E-04	.7171E-04	.2367E-05
50.00	.7029	.3595E-02	.4538	.2309E-02	.3009	.1571E-02	.1981	.9687E-03	.3173E-01	.1883E-03	.2193E-02	.3096E-04	.3187E-04	.1578E-05
52.00	.7565	.4144E-02	.4302	.2248E-02	.3031	.1577E-02	.1764	.9142E-03	.2767E-01	.1758E-03	.1695E-02	.2722E-04	.2523E-04	.1404E-05
54.00	.7716	.4185E-02	.4530	.2307E-02	.2784	.1511E-02	.1642	.8819E-03	.2252E-01	.1506E-03	.1449E-02	.2517E-04	.9296E-05	.8522E-06
56.00	.8607	.4421E-02	.4460	.2289E-02	.2914	.1546E-02	.1597	.8697E-03	.1970E-01	.1484E-03	.5054E-03	.1487E-04	.6640E-05	.7202E-06
58.00	.9145	.4842E-02	.4559	.2459E-02	.2832	.1619E-02	.1550	.8103E-03	.2463E-01	.1763E-03	.2053E-03	.1007E-04	.1411E-05	.3528E-06
60.00	.8264	.4332E-02	.4248	.2234E-02	.2664	.1478E-02	.1482	.8378E-03	.2409E-01	.1641E-03	.4460E-04	.4416E-05	.1328E-05	.3221E-06
62.00	.8582	.4516E-02	.4448	.2286E-02	.2620	.1466E-02	.1321	.7912E-03	.1159E-01	.1138E-03	.6690E-04	.5408E-05	.0	.0
64.00	1.060	.4906E-02	.4980	.2419E-02	.2648	.1474E-02	.1925	.9548E-03	.6973E-02	.8829E-04	.7433E-05	.1803E-05	.1328E-05	.3221E-06
66.00	1.066	.4919E-02	.4488	.2296E-02	.2556	.1448E-02	.9518E-01	.6715E-03	.1501E-02	.4096E-04	.3716E-04	.4031E-05	.0	.0
68.00	1.020	.4813E-02	.3905	.2142E-02	.3417	.1674E-02	.1394	.8126E-03	.1349E-02	.3883E-04	.2973E-04	.3605E-05	.0	.0
70.00	1.362	.5560E-02	.6292	.2719E-02	.5372	.2099E-02	.1176	.7463E-03	.6840E-03	.2765E-04	.7433E-05	.1803E-05	.0	.0
72.00	1.171	.5478E-02	.9121	.3478E-02	.3056	.1682E-02	.3260E-01	.4175E-03	.3634E-03	.2141E-04	.0	.0	.0	.0
74.00	3.813	.9305E-02	.4530	.2307E-02	.4372	.1894E-02	.1047E-01	.2227E-03	.1520E-03	.1303E-04	.0	.0	.0	.0
76.00	.6712	.3504E-02	.7612	.2991E-02	.2551E-01	.4575E-03	.6442E-02	.1747E-03	.0	.0	.0	.0	.0	.0
78.00	1.802	.6397E-02	.4794E-01	.7505E-03	.2314E-01	.4357E-03	.1288E-01	.2470E-03	.1900E-04	.4608E-05	.0	.0	.0	.0
80.00	.5909E-01	.1252E-02	.4115E-01	.6953E-03	.2384E-01	.4422E-03	.8053E-03	.6176E-04	.1900E-04	.4608E-05	.0	.0	.0	.0
82.00	.5172E-01	.1084E-02	.1238E-01	.3815E-03	.4880E-02	.2001E-03	.8053E-03	.6176E-04	.0	.0	.0	.0	.0	.0
84.00	.5018E-01	.1067E-02	.7191E-02	.2907E-03	.2510E-02	.1435E-03	.1611E-03	.2762E-04	.0	.0	.0	.0	.0	.0
86.00	.9263E-02	.4586E-03	.1798E-02	.1453E-03	.4183E-03	.5857E-04	.8053E-04	.1553E-04	.0	.0	.0	.0	.0	.0
88.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 5

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega} \quad \vartheta = 23^\circ$		$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
18.00	.2056	.1621E-02	.1636	.1040E-02	.1166	.7338E-03	.8361E-01	.4723E-03	.3412E-01	.1465E-03	.1127E-01	.5267E-04	.2956E-02	.1140E-04
20.00	.2780	.1885E-02	.2132	.1188E-02	.1554	.8472E-03	.1151	.5541E-03	.4409E-01	.1666E-03	.1292E-01	.5641E-04	.2995E-02	.1148E-04
22.00	.3250	.2039E-02	.2450	.1273E-02	.1803	.9126E-03	.1354	.6011E-03	.4913E-01	.1759E-03	.1393E-01	.5857E-04	.2890E-02	.1128E-04
24.00	.3545	.2129E-02	.2717	.1341E-02	.2005	.9623E-03	.1478	.6280E-03	.5437E-01	.1850E-03	.1383E-01	.5836E-04	.2592E-02	.1068E-04
26.00	.4051	.2276E-02	.2938	.1394E-02	.2220	.1013E-02	.1547	.6425E-03	.5494E-01	.1860E-03	.1297E-01	.5651E-04	.2271E-02	.9996E-05
28.00	.4654	.2440E-02	.3230	.1462E-02	.2333	.1038E-02	.1730	.6794E-03	.5646E-01	.1885E-03	.1247E-01	.5541E-04	.1905E-02	.9155E-05
30.00	.4703	.2452E-02	.3324	.1483E-02	.2510	.1077E-02	.1775	.6881E-03	.5683E-01	.1891E-03	.1130E-01	.5276E-04	.1558E-02	.8280E-05
32.00	.5074	.2547E-02	.3548	.1532E-02	.2753	.1128E-02	.1802	.6933E-03	.5668E-01	.1889E-03	.1049E-01	.5084E-04	.1286E-02	.7521E-05
34.00	.5033	.2537E-02	.3667	.1558E-02	.2584	.1092E-02	.1823	.6973E-03	.5382E-01	.1841E-03	.8609E-02	.4604E-04	.9908E-03	.6602E-05
36.00	.5261	.2594E-02	.3839	.1594E-02	.2755	.1128E-02	.1926	.7168E-03	.5261E-01	.1820E-03	.8239E-02	.4504E-04	.7030E-03	.5562E-05
38.00	.5350	.2616E-02	.3747	.1575E-02	.2801	.1137E-02	.1870	.7063E-03	.4730E-01	.1726E-03	.6259E-02	.3926E-04	.5244E-03	.4803E-05
40.00	.5281	.2559E-02	.3962	.1619E-02	.2728	.1123E-02	.1909	.7136E-03	.4324E-01	.1651E-03	.5230E-02	.3589E-04	.3476E-03	.3910E-05
42.00	.5291	.2601E-02	.3741	.1573E-02	.2737	.1124E-02	.1851	.7028E-03	.4030E-01	.1593E-03	.4225E-02	.3226E-04	.2517E-03	.3327E-05
44.00	.5238	.2588E-02	.3845	.1595E-02	.2828	.1143E-02	.1833	.6992E-03	.3541E-01	.1493E-03	.3270E-02	.2838E-04	.1610E-03	.2662E-05
46.00	.5414	.2631E-02	.3993	.1625E-02	.2986	.1174E-02	.1871	.7065E-03	.3382E-01	.1459E-03	.2733E-02	.2594E-04	.1531E-03	.2595E-05
48.00	.5813	.2726E-02	.4063	.1640E-02	.2881	.1154E-02	.1819	.6967E-03	.2699E-01	.1304E-03	.2403E-02	.2433E-04	.6951E-04	.1749E-05
50.00	.5867	.2739E-02	.4060	.1639E-02	.2863	.1150E-02	.1737	.6808E-03	.2604E-01	.1280E-03	.1822E-02	.2118E-04	.4576E-04	.1419E-05
52.00	.6286	.2835E-02	.4411	.1708E-02	.2973	.1172E-02	.1783	.6896E-03	.2347E-01	.1215E-03	.1448E-02	.1888E-04	.1760E-04	.8799E-06
54.00	.6519	.2887E-02	.4234	.1674E-02	.2851	.1148E-02	.1597	.6528E-03	.2067E-01	.1141E-03	.1202E-02	.1720E-04	.1056E-04	.6816E-06
56.00	.6844	.2958E-02	.4533	.1732E-02	.2990	.1175E-02	.1537	.6403E-03	.1960E-01	.1111E-03	.1147E-02	.1681E-04	.1232E-04	.7362E-06
58.00	.7005	.2993E-02	.4592	.1743E-02	.2748	.1127E-02	.1411	.6135E-03	.1487E-01	.9674E-04	.1921E-03	.6877E-05	.2640E-05	.3408E-06
60.00	.7859	.3170E-02	.4553	.1736E-02	.2773	.1132E-02	.1438	.6194E-03	.1790E-01	.1062E-03	.8865E-04	.4672E-05	.8799E-06	.1968E-06
62.00	.8053	.3209E-02	.4572	.1739E-02	.2534	.1082E-02	.1339	.5977E-03	.1382E-01	.9328E-04	.3940E-04	.3115E-05	.0	.0
64.00	.8716	.3338E-02	.4439	.1714E-02	.2701	.1117E-02	.1297	.5882E-03	.1295E-01	.9030E-04	.5417E-04	.3652E-05	.1760E-05	.2783E-06
66.00	.8562	.3309E-02	.4613	.1747E-02	.2808	.1139E-02	.1082	.5373E-03	.4343E-02	.5229E-04	.9850E-05	.1557E-05	.1760E-05	.2783E-06
68.00	.9588	.3501E-02	.4538	.1733E-02	.2287	.1028E-02	.1228	.5724E-03	.9065E-03	.2389E-04	.1970E-04	.2202E-05	.6159E-05	.5206E-06
70.00	1.064	.3689E-02	.4710	.1765E-02	.3030	.1183E-02	.9455E-01	.5022E-03	.2770E-03	.1320E-04	.1477E-04	.1907E-05	.3872E-04	.1305E-05
72.00	1.040	.3646E-02	.3757	.1577E-02	.4092	.1375E-02	.8137E-01	.4659E-03	.3651E-03	.1516E-04	.6944E-03	.1308E-04	.1073E-02	.6869E-05
74.00	.7662	.3130E-02	.3681	.1623E-02	.6392	.1718E-02	.8884E-01	.4868E-03	.5414E-03	.1846E-04	.6845E-03	.1298E-04	.1242E-02	.7391E-05
76.00	.6619	.2909E-02	.5119	.1840E-02	.2715	.1120E-02	.5176E-02	.1175E-03	.5162E-03	.1803E-04	.7732E-03	.1380E-04	.1310E-02	.7592E-05
78.00	1.421	.4488E-02	.4913	.1898E-02	.4147	.1457E-02	.1853E-02	.7402E-04	.5831E-03	.2017E-04	.8709E-03	.1541E-04	.1383E-02	.8210E-05
80.00	.9723	.3712E-02	.5120	.1937E-02	.1021E-01	.2286E-03	.2584E-02	.8739E-04	.3711E-03	.1609E-04	.8294E-03	.1504E-04	.1541E-02	.8668E-05
82.00	1.058	.3871E-02	.2772E-01	.4508E-03	.4862E-02	.1577E-03	.2640E-02	.8833E-04	.3976E-03	.1665E-04	.9383E-03	.1600E-04	.1625E-02	.8899E-05
84.00	.3957E-01	.7488E-03	.9334E-02	.2616E-03	.2237E-02	.1070E-03	.5055E-03	.3865E-04	.4373E-03	.1747E-04	.9331E-03	.1596E-04	.1763E-02	.9270E-05
86.00	.2450E-01	.5891E-03	.1672E-01	.3501E-03	.9335E-02	.2186E-03	.7975E-02	.1535E-03	.3446E-03	.1550E-04	.1011E-02	.1661E-04	.1715E-02	.9144E-05
88.00	.6649E-01	.9706E-03	.1769E-01	.3602E-03	.6710E-02	.1853E-03	.3033E-02	.9468E-04	.5964E-03	.2039E-04	.8916E-03	.1560E-04	.1359E-02	.8139E-05
90.00	.2003	.1685E-02	.1137	.9129E-03	.9394E-01	.6934E-03	.1685E-03	.2232E-04	.0	.0	.3629E-04	.3147E-05	.1945E-03	.3079E-05
92.00	.1104E-01	.3954E-03	.1741E-01	.3573E-03	.2139E-02	.1046E-03	.1123E-03	.1822E-04	.0	.0	.0	.0	.9262E-06	.2125E-06
94.00	.2073E-01	.5419E-03	.9417E-01	.8309E-03	.1945E-03	.3155E-04	.0	.0	.0	.0	.1037E-04	.1682E-05	.9262E-06	.2125E-06
96.00	.3917	.2356E-02	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6484E-05	.5622E-06
98.00	.1777E-01	.5017E-03	.1393E-03	.3196E-04	.2917E-03	.3864E-04	.0	.0	.1325E-04	.3040E-05	.1037E-04	.1682E-05	.1019E-04	.7047E-06
100.0	.5384E-03	.8734E-04	.0	.0	.0	.0	.0	.0	.0	.0	.1037E-04	.1682E-05	.2223E-04	.1041E-05

Table 6

Table 6														
ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$	$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
20.00	1.225	.3958E-02	.8676	.2396E-02	.5816	.1639E-02	.4022	.1036E-02	.1502	.3075E-03			.1147E-01	.2246E-04
22.00	1.635	.4572E-02	1.146	.2753E-02	.8048	.1928E-02	.5451	.1206E-02	.2004	.3551E-03			.1399E-01	.2481E-04
24.00	1.892	.4918E-02	1.358	.2998E-02	.9421	.2086E-02	.6347	.1301E-02	.2320	.3821E-03			.1454E-01	.2530E-04
26.00	2.074	.5149E-02	1.463	.3111E-02	1.007	.2157E-02	.7060	.1372E-02	.2514	.3978E-03			.1376E-01	.2460E-04
28.00	2.185	.5285E-02	1.538	.3190E-02	1.067	.2220E-02	.7228	.1389E-02	.2502	.3969E-03			.122JE-01	.2319E-04
30.00	2.254	.5368E-02	1.594	.3248E-02	1.102	.2256E-02	.7356	.1401E-02	.2509	.3974E-03			.1057E-01	.2157E-04
32.00	2.266	.5383E-02	1.619	.3274E-02	1.097	.2251E-02	.7388	.1404E-02	.2461	.3936E-03			.9034E-02	.1994E-04
34.00	2.363	.5497E-02	1.639	.3293E-02	1.082	.2236E-02	.7438	.1409E-02	.2369	.3861E-03			.7605E-02	.1829E-04
36.00	2.430	.5575E-02	1.593	.3247E-02	1.096	.2250E-02	.7383	.1403E-02	.2222	.3740E-03			.6236E-02	.1656E-04
38.00	2.493	.5646E-02	1.607	.3261E-02	1.072	.2225E-02	.7162	.1382E-02	.2122	.3655E-03			.5037E-02	.1489E-04
40.00	2.420	.5562E-02	1.582	.3236E-02	1.073	.2227E-02	.7154	.1382E-02	.1973	.3525E-03			.4018E-02	.1330E-04
42.00	2.437	.5582E-02	1.559	.3211E-02	1.037	.2189E-02	.6960	.1363E-02	.1902	.3460E-03			.3130E-02	.1173E-04
44.00	2.429	.5573E-02	1.546	.3199E-02	1.015	.2166E-02	.6774	.1344E-02	.1763	.3332E-03			.2333E-02	.1013E-04
46.00	2.319	.5446E-02	1.535	.3187E-02	1.014	.2164E-02	.6690	.1336E-02	.1655	.3228E-03			.1573E-02	.8320E-05
48.00	2.372	.5507E-02	1.543	.3195E-02	1.002	.2152E-02	.6452	.1312E-02	.1553	.3126E-03			.1330E-02	.7648E-05
50.00	2.430	.5574E-02	1.474	.3123E-02	.9792	.2127E-02	.6306	.1297E-02	.1457	.3028E-03			.8702E-03	.6188E-05
52.00	2.469	.5618E-02	1.493	.3143E-02	.9726	.2120E-02	.6247	.1291E-02	.1313	.2875E-03			.7990E-03	.5929E-05
54.00	2.495	.5649E-02	1.465	.3114E-02	.9424	.2086E-02	.6170	.1283E-02	.1185	.2731E-03			.3748E-03	.4061E-05
56.00	2.442	.5588E-02	1.422	.3068E-02	.9106	.2051E-02	.5871	.1251E-02	.1059	.2582E-03			.6538E-03	.5363E-05
58.00	2.335	.5465E-02	1.378	.3019E-02	.8747	.2010E-02	.5751	.1239E-02	.9121E-01	.2396E-03			.2701E-03	.3447E-05
60.00	2.296	.5418E-02	1.393	.3036E-02	.8888	.2026E-02	.5799	.1244E-02	.7882E-01	.2228E-03			.1540E-03	.2603E-05
62.00	2.266	.5383E-02	1.297	.2929E-02	.8625	.1996E-02	.5415	.1202E-02	.6505E-01	.2024E-03			.2816E-04	.1113E-05
64.00	2.230	.5340E-02	1.255	.2882E-02	.8680	.2002E-02	.4937	.1148E-02	.6146E-01	.1967E-03			.5279E-05	.4819E-06
66.00	2.331	.5459E-02	1.289	.2921E-02	.8565	.1989E-02	.4852	.1138E-02	.5269E-01	.1821E-03			.8799E-05	.6222E-06
68.00	2.436	.5581E-02	1.279	.2909E-02	.8957	.2034E-02	.4445	.1089E-02	.5553E-01	.1870E-03			.5279E-05	.4819E-06
70.00	2.425	.5568E-02	1.231	.2854E-02	.8865	.2024E-02	.4252	.1065E-02	.3934E-01	.1574E-03			.5679E-05	.6526E-06
72.00	2.400	.5540E-02	1.268	.2897E-02	.8619	.1995E-02	.3692	.9925E-03	.6281E-01	.1588E-03			.8799E-05	.6222E-06
74.00	2.357	.5489E-02	1.258	.2886E-02	.7308	.1837E-02	.3532	.1024E-02	.3292E-01	.1440E-03			.1584E-04	.8348E-06
76.00	2.416	.5558E-02	1.371	.3012E-02	.7101	.1811E-02	.3319	.9409E-03	.8575E-01	.2377E-03			.8799E-05	.6222E-06
78.00	2.475	.5592E-02	1.075	.2807E-02	.6689	.1850E-02	.3773	.1056E-02	.1117E-01	.8827E-04			.1760E-04	.9262E-06
80.00	2.146	.5514E-02	1.177	.2930E-02	.7429	.1950E-02	.2163	.7996E-03	.1988E-02	.3724E-04			.2223E-04	.1041E-05
82.00	2.316	.5728E-02	1.144	.2896E-02	.7629	.1976E-02	.8649	.1599E-02	.1988E-03	.1178E-04			.2223E-04	.1041E-05
84.00	2.034	.5369E-02	1.669	.3498E-02	.4822	.1571E-02	.1169	.5879E-03	.2650E-03	.1360E-04			.8151E-04	.1993E-05
86.00	2.867	.6374E-02	2.029	.3857E-02	1.657	.2912E-02	.7628	.1502E-02	.1723E-03	.1096E-04			.3473E-03	.4115E-05
88.00	4.305	.7810E-02	.9791	.2679E-02	.2697	.1175E-02	.1514	.6690E-03	.1988E-03	.1178E-04			.9725E-03	.6885E-05
90.00	4.418	.7912E-02	2.325	.4129E-02	1.920	.3135E-02	.3594E-02	.1031E-03	.7156E-03	.2234E-04			.2567E-02	.1119E-04
92.00	2.776	.6272E-02	5.542	.6374E-02	.2315	.1089E-02	.1685E-02	.7057E-04	.8216E-03	.2394E-04			.3276E-02	.1264E-04
94.00	1.457	.4543E-02	10.77	.8888E-02	.4473E-02	.1513E-03	.1460E-02	.6570E-04	.9542E-03	.2580E-04			.4087E-02	.1412E-04
96.00	26.78	.1948E-01	.3441E-01	.5023E-03	.4765E-02	.1562E-03	.8425E-03	.4990E-04	.1352E-02	.3071E-04			.5347E-02	.1614E-04
98.00	.4986	.2658E-02	.6826E-02	.2237E-03	.3014E-02	.1242E-03	.2078E-02	.7838E-04	.2213E-02	.3929E-04			.8435E-02	.2028E-04
100.0	.2154E-01	.5524E-03	.4876E-02	.1891E-03	.4959E-02	.1593E-03	.6459E-02	.1382E-03	.1812E-01	.1124E-03			.2247	.1047E-03

Table 7

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 60^\circ$	$\vartheta = 70^\circ$	$\vartheta = 80^\circ$	$\vartheta = 90^\circ$	$\vartheta = 100^\circ$	$\vartheta = 110^\circ$			
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.2375E-03	.5538E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1516E-05	.3789E-06
4.000	.1565E-02	.1434E-03	.1800E-02	.1092E-03	.6978E-03	.6397E-04	.1023E-02	.5851E-04	.9450E-03	.5001E-04	.4598E-03	.1440E-04	.2454E-03	.4537E-05
6.000	.1095E-01	.3795E-03	.7426E-02	.2217E-03	.7576E-02	.2108E-03	.5970E-02	.1413E-03	.4860E-02	.1134E-03	.4453E-02	.4480E-04	.3913E-02	.1812E-04
8.000	.6056	.2822E-02	.4985	.1816E-02	.4217	.1572E-02	.3549	.1089E-02	.2026	.7324E-03	.1031	.2156E-03	.7836E-01	.8109E-04
10.00	4.428	.7631E-02	3.574	.4864E-02	2.965	.4170E-02	2.409	.2839E-02	1.425	.1942E-02	.7664	.5878E-03	.5162	.2081E-03
12.00	4.339	.7553E-02	3.384	.4733E-02	2.717	.3991E-02	2.151	.2682E-02	1.212	.1791E-02	.6295	.5327E-03	.3921	.1814E-03
14.00	4.264	.7488E-02	3.232	.4625E-02	2.556	.3871E-02	1.957	.2558E-02	1.025	.1647E-02	.5024	.4759E-03	.2548	.1573E-03
16.00	4.265	.7957E-02	3.104	.4816E-02	2.362	.3955E-02	1.758	.2576E-02	.8734	.1616E-02	.4031	.4529E-03	.2192	.1441E-03
18.00	4.335	.7551E-02	3.028	.4477E-02	2.248	.3631E-02	1.636	.2339E-02	.7451	.1404E-02	.3221	.3810E-03	.1664	.1182E-03
20.00	4.339	.7553E-02	2.975	.4440E-02	2.147	.3548E-02	1.499	.2239E-02	.6621	.1324E-02	.2624	.3439E-03	.1255	.1026E-03
22.00	4.326	.7543E-02	2.860	.4351E-02	1.996	.3421E-02	1.370	.2141E-02	.5589	.1216E-02	.2104	.3079E-03	.9325E-01	.8846E-04
24.00	4.243	.7470E-02	2.757	.4272E-02	1.879	.3319E-02	1.258	.2051E-02	.4994	.1150E-02	.1698	.2766E-03	.7063E-01	.7699E-04
26.00	4.091	.7335E-02	2.604	.4152E-02	1.760	.3213E-02	1.142	.1954E-02	.4244	.1060E-02	.1360	.2476E-03	.5255E-01	.6641E-04
28.00	4.051	.7299E-02	2.521	.4085E-02	1.637	.3098E-02	1.026	.1852E-02	.3500	.9625E-03	.1067	.2194E-03	.3860E-01	.5691E-04
30.00	3.922	.7630E-02	2.358	.4197E-02	1.501	.3152E-02	.9128	.1857E-02	.3099	.9624E-03	.8502E-01	.2080E-03	.2846E-01	.5193E-04
32.00	3.765	.7036E-02	2.227	.3839E-02	1.396	.2861E-02	.8109	.1647E-02	.2628	.8341E-03	.6682E-01	.1736E-03	.2109E-01	.4206E-04
34.00	3.514	.6798E-02	2.066	.3697E-02	1.258	.2716E-02	.7298	.1562E-02	.2216	.7659E-03	.5168E-01	.1526E-03	.1482E-01	.3527E-04
36.00	3.359	.6646E-02	1.919	.3564E-02	1.137	.2582E-02	.6282	.1450E-02	.1821	.6942E-03	.4151E-01	.1369E-03	.1072E-01	.2999E-04
38.00	3.063	.6347E-02	1.768	.3421E-02	1.019	.2445E-02	.5547	.1362E-02	.1543	.6392E-03	.3170E-01	.1195E-03	.7726E-02	.2546E-04
40.00	2.818	.6088E-02	1.602	.3256E-02	.9065	.2306E-02	.4855	.1274E-02	.1273	.5805E-03	.2414E-01	.1043E-03	.5260E-02	.2101E-04
42.00	2.589	.5835E-02	1.441	.3089E-02	.8046	.2172E-02	.4163	.1180E-02	.1012	.5176E-03	.1737E-01	.8850E-04	.3795E-02	.1784E-04
44.00	2.356	.5514E-02	1.286	.3099E-02	.7195	.2182E-02	.3422	.1137E-02	.8009E-01	.4892E-03	.1328E-01	.8221E-04	.2618E-02	.1575E-04
46.00	2.112	.5269E-02	1.182	.2797E-02	.6128	.1896E-02	.2965	.9959E-03	.6255E-01	.4069E-03	.1005E-01	.6730E-04	.1740E-02	.1208E-04
48.00	2.031	.5168E-02	1.121	.2724E-02	.5531	.1801E-02	.2539	.9216E-03	.5611E-01	.3854E-03	.7150E-02	.5677E-04	.1193E-02	.1000E-04
50.00	1.741	.4785E-02	.9401	.2494E-02	.4643	.1650E-02	.2121	.8422E-03	.4126E-01	.3305E-03	.5027E-02	.4761E-04	.6259E-03	.8325E-05
52.00	1.728	.4767E-02	.8907	.2428E-02	.4420	.1610E-02	.1933	.8040E-03	.3249E-01	.2933E-03	.4246E-02	.4375E-04	.5506E-03	.6797E-05
54.00	1.409	.4304E-02	.7256	.2192E-02	.3481	.1429E-02	.1452	.6969E-03	.2349E-01	.2494E-03	.2644E-02	.3452E-04	.3352E-03	.5304E-05
56.00	1.263	.4075E-02	.6082	.2006E-02	.2720	.1263E-02	.1120	.6121E-03	.1741E-01	.2147E-03	.1893E-02	.2921E-04	.2126E-03	.4223E-05
58.00	1.017	.3885E-02	.4977	.1928E-02	.2261	.1224E-02	.8736E-01	.5743E-03	.1248E-01	.1931E-03	.1246E-02	.2518E-04	.1334E-03	.3555E-05
60.00	.8504	.3344E-02	.3980	.1623E-02	.1717	.1003E-02	.6738E-01	.4747E-03	.8955E-02	.1540E-03	.8507E-03	.1958E-04	.8844E-04	.2724E-05
62.00	.7129	.3062E-02	.3324	.1483E-02	.1312	.8771E-03	.5294E-01	.4208E-03	.6120E-02	.1273E-03	.4751E-03	.1464E-04	.3566E-04	.1730E-05
64.00	.5956	.2808E-02	.2724	.1343E-02	.9829E-01	.7592E-03	.3775E-01	.3554E-03	.4815E-02	.1129E-03	.3832E-03	.1314E-04	.3566E-04	.1730E-05
66.00	.4884	.2534E-02	.2267	.1225E-02	.7476E-01	.6621E-03	.2820E-01	.3071E-03	.4815E-02	.1129E-03	.3832E-03	.1314E-04	.3566E-04	.1730E-05
68.00	.4185	.2346E-02	.1769	.1082E-02	.6410E-01	.6131E-03	.2331E-01	.2792E-03	.3015E-02	.8934E-04	.1916E-03	.9293E-05	.1284E-04	.1038E-05
70.00	.3322	.2090E-02	.1357	.9477E-03	.4915E-01	.5368E-03	.1820E-01	.2467E-03	.2295E-02	.7794E-04	.8430E-04	.6165E-05	.0	.0
72.00	.2667	.1990E-02	.1076	.8966E-03	.3697E-01	.4947E-03	.1293E-01	.2209E-03	.9084E-03	.5119E-04	.9963E-04	.6702E-05	.5706E-05	.6920E-06
74.00	.2446	.1793E-02	.9542E-01	.7947E-03	.2512E-01	.3838E-03	.8643E-02	.1700E-03	.6750E-03	.4227E-04	.0	.0	.0	.0
76.00	.1826	.1550E-02	.7370E-01	.6984E-03	.1735E-01	.3189E-03	.7107E-02	.1542E-03	.1800E-03	.2183E-04	.0	.0	.0	.0
78.00	.1368	.1341E-02	.3994E-01	.5142E-03	.1166E-01	.2615E-03	.2900E-02	.9848E-04	.4500E-04	.1091E-04	.0	.0	.0	.0
80.00	.1098	.1201E-02	.3117E-01	.4542E-03	.6081E-02	.1888E-03	.1706E-02	.7553E-04	.4500E-04	.1091E-04	.7664E-05	.1859E-05	.0	.0
82.00	.7489E-01	.9924E-03	.1710E-01	.3365E-03	.2791E-02	.1279E-03	.1194E-02	.6320E-04	.4500E-04	.1091E-04	.0	.0	.0	.0
84.00	.3689E-01	.6964E-03	.1035E-01	.2618E-03	.2592E-02	.1233E-03	.5686E-03	.4361E-04	.0	.0	.0	.0	.0	.0
86.00	.1721E-01	.4758E-03	.7539E-02	.2234E-03	.9969E-03	.7646E-04	.5686E-04	.1379E-04	.0	.0	.0	.0	.0	.0
88.00	.2392E-01	.5608E-03	.2475E-02	.1280E-03	.3987E-03	.4836E-04	.1706E-03	.2389E-04	.0	.0	.0	.0	.0	.0
90.00	.8048E-02	.3253E-03	.6751E-03	.6685E-04	.9969E-04	.2418E-04	.5686E-04	.1379E-04	.0	.0	.0	.0	.0	.0
92.00	.1188E-02	.1328E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 8

Table 8

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 70^\circ$	$\vartheta = 90^\circ$	$\vartheta = 110^\circ$						
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.1118E-02	.1212E-03	.1575E-02	.1021E-03	.1695E-02	.9969E-04	.1478E-02	.7032E-04	.5400E-03	.3781E-04	.2989E-03	.1161E-04	.2026E-03	.4123E-05
16.00	1.444	.4629E-02	1.026	.2769E-02	.8013	.2303E-02	.6075	.1515E-02	.3038	.9528E-03	.1021	.2280E-03	.5290E-01	.7079E-04
18.00	1.746	.4791E-02	1.243	.2869E-02	.9429	.2351E-02	.7019	.1532E-02	.3567	.9717E-03	.1380	.2494E-03	.6023E-01	.7109E-04
20.00	1.702	.4731E-02	1.240	.2864E-02	.9237	.2327E-02	.6821	.1510E-02	.3290	.9332E-03	.1223	.2348E-03	.4730E-01	.6300E-04
22.00	1.716	.4751E-02	1.204	.2823E-02	.8933	.2289E-02	.6734	.1501E-02	.3022	.8944E-03	.1034	.2159E-03	.3585E-01	.5485E-04
24.00	1.672	.4689E-02	1.164	.2775E-02	.8940	.2290E-02	.6213	.1442E-02	.2641	.8361E-03	.8519E-01	.1960E-03	.2651E-01	.4717E-04
26.00	1.695	.4721E-02	1.125	.2729E-02	.8372	.2216E-02	.6016	.1418E-02	.2381	.7940E-03	.7061E-01	.1764E-03	.2012E-01	.4109E-04
28.00	1.581	.4559E-02	1.070	.2662E-02	.8159	.2187E-02	.5750	.1387E-02	.2142	.7531E-03	.5755E-01	.1611E-03	.1445E-01	.3482E-04
30.00	1.558	.4809E-02	1.065	.2821E-02	.7901	.2287E-02	.5424	.1431E-02	.1968	.7669E-03	.4786E-01	.1561E-03	.1095E-01	.3221E-04
32.00	1.571	.4545E-02	1.051	.2637E-02	.7806	.2140E-02	.5101	.1306E-02	.1690	.6680E-03	.3886E-01	.1324E-03	.7766E-02	.2553E-04
34.00	1.584	.4563E-02	1.049	.2635E-02	.7478	.2094E-02	.4851	.1274E-02	.1467	.6232E-03	.3139E-01	.1190E-03	.5843E-02	.2214E-04
36.00	1.628	.4627E-02	1.043	.2627E-02	.7240	.2060E-02	.4592	.1239E-02	.1350	.5978E-03	.2522E-01	.1066E-03	.4050E-02	.1843E-04
38.00	1.654	.4663E-02	1.019	.2597E-02	.6942	.2018E-02	.4288	.1198E-02	.1131	.5471E-03	.2021E-01	.9545E-04	.2882E-02	.1555E-04
40.00	1.656	.4666E-02	1.016	.2593E-02	.6724	.1986E-02	.3886	.1140E-02	.1042	.5251E-03	.1563E-01	.8395E-04	.2003E-02	.1296E-04
42.00	1.674	.4692E-02	1.011	.2587E-02	.6567	.1962E-02	.3532	.1087E-02	.8986E-01	.4877E-03	.1261E-01	.7539E-04	.1379E-02	.1076E-04
44.00	1.736	.5077E-02	.9536	.2725E-02	.6175	.2022E-02	.3302	.1117E-02	.7669E-01	.4787E-03	.9763E-02	.7049E-04	.1000E-02	.9735E-05
46.00	1.747	.4793E-02	1.004	.2577E-02	.5860	.1854E-02	.2588	.9997E-03	.6673E-01	.4203E-03	.7656E-02	.5987E-04	.6776E-03	.7540E-05
48.00	1.623	.4619E-02	.9075	.2451E-02	.5258	.1756E-02	.2589	.9305E-03	.5458E-01	.3801E-03	.5518E-02	.4987E-04	.3923E-03	.5737E-05
50.00	1.638	.4642E-02	.8837	.2419E-02	.4901	.1695E-02	.2461	.9073E-03	.4468E-01	.3439E-03	.4138E-02	.4319E-04	.2702E-03	.4831E-05
52.00	1.549	.4514E-02	.7989	.2300E-02	.4179	.1565E-02	.2066	.8312E-03	.3694E-01	.3127E-03	.3096E-02	.3736E-04	.1526E-03	.3579E-05
54.00	1.599	.4585E-02	.7995	.2300E-02	.4093	.1545E-02	.1916	.8004E-03	.3100E-01	.2865E-03	.1878E-02	.2909E-04	.1013E-03	.2915E-05
56.00	1.589	.4571E-02	.7765	.2267E-02	.3763	.1485E-02	.1721	.7587E-03	.2340E-01	.2489E-03	.1456E-02	.2562E-04	.4137E-04	.1863E-05
58.00	1.512	.4738E-02	.7142	.2310E-02	.3502	.1523E-02	.1532	.7606E-03	.2218E-01	.2575E-03	.1018E-02	.2276E-04	.1516E-04	.1198E-05
60.00	1.454	.4372E-02	.6990	.2151E-02	.3322	.1396E-02	.1385	.6806E-03	.1656E-01	.2094E-03	.9579E-03	.2078E-04	.9986E-05	.9154E-06
62.00	1.322	.4170E-02	.6115	.2012E-02	.2760	.1272E-02	.1143	.6184E-03	.1318E-01	.1868E-03	.4445E-03	.1416E-04	.4280E-05	.5993E-06
64.00	1.212	.3992E-02	.5353	.1882E-02	.2331	.1169E-02	.8751E-01	.5410E-03	.9990E-02	.1626E-03	.1686E-03	.8718E-05	.0	.0
66.00	1.099	.3802E-02	.4850	.1792E-02	.2114	.1113E-02	.9609E-01	.5669E-03	.6840E-02	.1346E-03	.1456E-03	.8102E-05	.0	.0
68.00	.9485	.3532E-02	.4038	.1635E-02	.1925	.1062E-02	.7693E-01	.5073E-03	.3285E-02	.9325E-04	.6897E-04	.5576E-05	.0	.0
70.00	.7829	.3209E-02	.3965	.1620E-02	.1674	.9907E-03	.6459E-01	.4648E-03	.1890E-02	.7073E-04	.3065E-04	.3717E-05	.0	.0
72.00	.8114	.3471E-02	.3566	.1632E-02	.1565	.1018E-02	.4217E-01	.3990E-03	.8606E-03	.5071E-04	.0	.0	.1516E-05	.3789E-06
74.00	.7442	.3128E-02	.3122	.1438E-02	.8822E-01	.7193E-03	.2121E-01	.2663E-03	.4500E-03	.3451E-04	.0	.0	.0	.0
76.00	.5091	.2736E-02	.1942	.1134E-02	.4895E-01	.5357E-03	.1444E-01	.2198E-03	.4050E-03	.3274E-04	.0	.0	.0	.0
78.00	.3762	.2224E-02	.1145	.8707E-03	.4685E-01	.5242E-03	.4264E-02	.1194E-03	.0	.0	.0	.0	.0	.0
80.00	.2184	.1695E-02	.1041	.8300E-03	.4226E-01	.1226E-03	.2681E-03	.4947E-02	.1286E-03	.0	.0	.0	.0	.0
82.00	.1428	.1371E-02	.2644E-01	.4183E-03	.9570E-02	.2369E-03	.3070E-02	.1013E-03	.0	.0	.0	.0	.0	.0
84.00	.3912E-01	.7172E-03	.2093E-01	.3722E-03	.3389E-02	.1410E-03	.1137E-03	.1950E-04	.0	.0	.0	.0	.0	.0
86.00	.2817E-01	.6086E-03	.7876E-02	.2283E-03	.2293E-02	.1160E-03	.0	.0	.0	.0	.0	.0	.0	.0
88.00	.5097E-01	.8187E-03	.7989E-02	.2300E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.1341E-02	.1328E-03	.1125E-03	.2729E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.2235E-03	.5422E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.2235E-03	.5422E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 9

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22.00	.1230	.1272E-02	.8777E-01	.7622E-03	.6539E-01	.6192E-03	.4776E-01	.3997E-03	.1957E-01	.2276E-03	.4598E-02	.4553E-04	.1476E-02	.1113E-04
24.00	.4876	.2532E-02	.3388	.1497E-02	.2648	.1246E-02	.1975	.8127E-03	.8829E-01	.4834E-03	.2203E-01	.9966E-04	.6200E-02	.2281E-04
26.00	.5519	.2694E-02	.3879	.1602E-02	.2844	.1291E-02	.2181	.8541E-03	.5864E-01	.5110E-03	.2565E-01	.1075E-03	.5894E-02	.2224E-04
28.00	.5591	.2711E-02	.4012	.1630E-02	.3004	.1327E-02	.2152	.8484E-03	.9760E-01	.5083E-03	.2373E-01	.1034E-03	.4699E-02	.1986E-04
30.00	.5746	.2920E-02	.3891	.1705E-02	.2930	.1393E-02	.2172	.9056E-03	.8941E-01	.5169E-03	.2108E-01	.1036E-03	.3589E-02	.1844E-04
32.00	.5884	.2782E-02	.3898	.1606E-02	.2873	.1298E-02	.2181	.8541E-03	.8928E-01	.4861E-03	.1743E-01	.8865E-04	.2613E-02	.1481E-04
34.00	.5960	.2799E-02	.4060	.1639E-02	.2985	.1323E-02	.2158	.8497E-03	.8172E-01	.4651E-03	.1490E-01	.8195E-04	.1862E-02	.1250E-04
36.00	.5984	.2805E-02	.3984	.1624E-02	.2882	.1300E-02	.2110	.8401E-03	.7474E-01	.4448E-03	.1225E-01	.7430E-04	.1302E-02	.1045E-04
38.00	.6194	.2854E-02	.3880	.1602E-02	.2873	.1298E-02	.2133	.8446E-03	.7141E-01	.4348E-03	.1043E-01	.6857E-04	.9315E-03	.8841E-05
40.00	.6042	.2819E-02	.3884	.1603E-02	.2878	.1299E-02	.2127	.8434E-03	.6687E-01	.4207E-03	.8292E-02	.6114E-04	.7489E-03	.7927E-05
42.00	.6257	.2868E-02	.3935	.1614E-02	.2831	.1288E-02	.2051	.8283E-03	.6151E-01	.4035E-03	.6261E-02	.5313E-04	.4765E-03	.6323E-05
44.00	.6192	.3032E-02	.3801	.1685E-02	.2851	.1374E-02	.1960	.8602E-03	.5632E-01	.4103E-03	.5480E-02	.5281E-04	.3198E-03	.5504E-05
46.00	.6418	.2905E-02	.3890	.1605E-02	.2781	.1277E-02	.2061	.8302E-03	.4747E-01	.3545E-03	.3993E-02	.4243E-04	.2311E-03	.4404E-05
48.00	.6431	.2908E-02	.3889	.1604E-02	.2743	.1268E-02	.1880	.7930E-03	.4167E-01	.3321E-03	.3242E-02	.3823E-04	.1662E-03	.3742E-05
50.00	.6794	.2989E-02	.3908	.1608E-02	.2660	.1249E-02	.1830	.7824E-03	.3357E-01	.2981E-03	.2498E-02	.3356E-04	.8702E-04	.2702E-05
52.00	.7039	.3042E-02	.3976	.1622E-02	.2585	.1231E-02	.1701	.7542E-03	.3294E-01	.2953E-03	.2031E-02	.3026E-04	.3138E-04	.1623E-05
54.00	.7507	.3142E-02	.3819	.1590E-02	.2574	.1229E-02	.1618	.7356E-03	.2628E-01	.2638E-03	.1939E-02	.2956E-04	.1569E-04	.1147E-05
56.00	.7804	.3203E-02	.3918	.1610E-02	.2516	.1215E-02	.1539	.7174E-03	.2452E-01	.2546E-03	.1241E-02	.2366E-04	.5706E-05	.6920E-06
58.00	.8572	.3567E-02	.4049	.1739E-02	.2466	.1278E-02	.1454	.7410E-03	.2400E-01	.2676E-03	.4153E-03	.1454E-04	.3031E-05	.5359E-06
60.00	.8146	.3273E-02	.3787	.1583E-02	.2212	.1139E-02	.1291	.6572E-03	.2065E-01	.2338E-03	.3142E-03	.1190E-04	.1427E-05	.0
62.00	.8367	.3317E-02	.4083	.1644E-02	.2229	.1143E-02	.1342	.6699E-03	.2227E-01	.2428E-03	.1303E-03	.7664E-05	.0	.0
64.00	.9159	.3470E-02	.4106	.1649E-02	.2258	.1151E-02	.1415	.6879E-03	.9045E-02	.1547E-03	.5364E-04	.4518E-05	.0	.0
66.00	.9266	.3491E-02	.3808	.1588E-02	.2214	.1139E-02	.1397	.6836E-03	.6750E-02	.1337E-03	.3065E-04	.3717E-05	.0	.0
68.00	.9849	.3599E-02	.4098	.1647E-02	.2264	.1152E-02	.1809	.7778E-03	.7110E-02	.1372E-03	.0	.0	.1427E-05	.3460E-06
70.00	1.074	.3758E-02	.3863	.1599E-02	.3197	.1369E-02	.1259	.6490E-03	.5850E-03	.3935E-04	.0	.0	.0	.0
72.00	1.066	.3977E-02	.5070	.1444E-02	.3150	.1444E-02	.9213E-01	.5898E-03	.9562E-04	.1690E-04	.8143E-05	.2036E-05	.0	.0
74.00	1.682	.4703E-02	.5979	.1989E-02	.2143	.1121E-02	.5811E-01	.4409E-03	.0	.0	.0	.0	.0	.0
76.00	1.988	.5113E-02	.3146	.1443E-02	.1745	.1011E-02	.5464E-01	.4275E-03	.4500E-04	.1091E-04	.0	.0	.0	.0
78.00	.6557	.2936E-02	.2455	.1275E-02	.3131	.1355E-02	.1933E-02	.8041E-04	.0	.0	.0	.0	.0	.0
80.00	.5191	.2613E-02	.2349	.1247E-02	.1665E-01	.3124E-03	.3980E-03	.3649E-04	.0	.0	.0	.0	.0	.0
82.00	.7321	.3103E-02	.5693E-01	.6139E-03	.1196E-02	.3837E-04	.1137E-03	.1950E-04	.4500E-04	.1091E-04	.0	.0	.0	.0
84.00	.7802E-01	.1013E-02	.1238E-02	.9051E-03	.7975E-03	.6838E-04	.1706E-03	.2389E-04	.0	.0	.0	.0	.0	.0
86.00	.3800E-02	.2235E-03	.1463E-02	.9840E-04	.9969E-04	.2418E-04	.0	.0	.0	.0	.0	.0	.0	.0
88.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 10

Table 10														
ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$	$\vartheta = 33^\circ$	$\vartheta = 43^\circ$	$\vartheta = 53^\circ$	$\vartheta = 73^\circ$	$\vartheta = 93^\circ$	$\vartheta = 113^\circ$						
(MeV)	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$
18.00	.1391	.1015E-02	.1057	.6315E-03	.8119E-01	.5208E-03	.6213E-01	.3441E-03	.2667E-01	.2005E-03	.9195E-02	.4860E-04	.2781E-02	.1153E-04
20.00	.1880	.1180E-02	.1398	.7260E-03	.1087	.6027E-03	.8351E-01	.3989E-03	.3409E-01	.2267E-03	.1026E-01	.5133E-04	.2771E-02	.1151E-04
22.00	.2285	.1301E-02	.1646	.7878E-03	.1279	.6537E-03	.9281E-01	.4206E-03	.4003E-01	.2457E-03	.1130E-01	.5388E-04	.2804E-02	.1158E-04
24.00	.2537	.1371E-02	.1878	.8416E-03	.1382	.6795E-03	.1008	.4383E-03	.4190E-01	.2514E-03	.1089E-01	.5286E-04	.2463E-02	.1085E-04
26.00	.2736	.1423E-02	.1978	.8638E-03	.1518	.7122E-03	.1160	.4701E-03	.4359E-01	.2564E-03	.1047E-01	.5186E-04	.2157E-02	.1016E-04
28.00	.3004	.1491E-02	.2211	.9131E-03	.1705	.7548E-03	.1204	.4789E-03	.4525E-01	.2612E-03	.9858E-02	.5032E-04	.1799E-02	.9273E-05
30.00	.3201	.1540E-02	.2313	.9339E-03	.1740	.7625E-03	.1283	.4945E-03	.4422E-01	.2583E-03	.8825E-02	.4761E-04	.1521E-02	.8529E-05
32.00	.3513	.1613E-02	.2418	.9549E-03	.1906	.7980E-03	.1303	.4983E-03	.4552E-01	.2620E-03	.8481E-02	.4667E-04	.1206E-02	.7593E-05
34.00	.3549	.1621E-02	.2483	.9677E-03	.1870	.7905E-03	.1322	.5019E-03	.4175E-01	.2509E-03	.6961E-02	.4228E-04	.8635E-03	.6425E-05
36.00	.3938	.1708E-02	.2626	.9951E-03	.1951	.8074E-03	.1384	.5135E-03	.4199E-01	.2517E-03	.6247E-02	.4006E-04	.7105E-03	.5828E-05
38.00	.3796	.1677E-02	.2604	.9909E-03	.1913	.7995E-03	.1352	.5076E-03	.3430E-01	.2274E-03	.5003E-02	.3585E-04	.5125E-03	.4950E-05
40.00	.4039	.1729E-02	.2642	.9982E-03	.1988	.8150E-03	.1326	.5028E-03	.3406E-01	.2266E-03	.4151E-02	.3265E-04	.3452E-03	.4063E-05
42.00	.3897	.1699E-02	.2745	.1017E-02	.2024	.8223E-03	.1356	.5083E-03	.3206E-01	.2199E-03	.3396E-02	.2953E-04	.2582E-03	.3513E-05
44.00	.3854	.1689E-02	.2638	.9973E-03	.1981	.8136E-03	.1368	.5105E-03	.2881E-01	.2084E-03	.2594E-02	.2581E-04	.1635E-03	.2796E-05
46.00	.4229	.1770E-02	.2739	.1016E-02	.2057	.8290E-03	.1384	.5136E-03	.2606E-01	.1983E-03	.2368E-02	.2466E-04	.9084E-04	.2084E-05
48.00	.4281	.1780E-02	.2791	.1026E-02	.1993	.8161E-03	.1328	.5030E-03	.2389E-01	.1898E-03	.1870E-02	.2192E-04	.9275E-04	.2106E-05
50.00	.4365	.1798E-02	.2845	.1036E-02	.2026	.8228E-03	.1244	.4870E-03	.2018E-01	.1745E-03	.1356E-02	.1866E-04	.5929E-04	.1684E-05
52.00	.4827	.1891E-02	.2966	.1058E-02	.2095	.8366E-03	.1275	.4929E-03	.2024E-01	.1747E-03	.1120E-02	.1696E-04	.3251E-04	.1247E-05
54.00	.5058	.1935E-02	.2994	.1063E-02	.2069	.8314E-03	.1175	.4733E-03	.1747E-01	.1623E-03	.1022E-02	.1620E-04	.1512E-04	.9562E-06
56.00	.5347	.1990E-02	.3115	.1084E-02	.2122	.8419E-03	.1132	.4645E-03	.1442E-01	.1475E-03	.7397E-03	.1378E-04	.8606E-05	.6415E-06
58.00	.5528	.2023E-02	.3126	.1086E-02	.1953	.8078E-03	.1039	.4450E-03	.1273E-01	.1386E-03	.5291E-03	.1166E-04	.0	.0
60.00	.5818	.2076E-02	.3155	.1091E-02	.1938	.8046E-03	.9567E-01	.4270E-03	.1270E-01	.1384E-03	.1233E-03	.5627E-05	.2869E-05	.3703E-06
62.00	.5979	.2104E-02	.3107	.1083E-02	.1809	.7774E-03	.9666E-01	.4292E-03	.1213E-01	.1352E-03	.4110E-04	.3249E-05	.0	.0
64.00	.6445	.2185E-02	.3098	.1081E-02	.1830	.7818E-03	.9898E-01	.4343E-03	.1575E-01	.1541E-03	.3596E-04	.3039E-05	.9562E-06	.2138E-06
66.00	.6385	.2175E-02	.3141	.1088E-02	.1869	.7902E-03	.1004	.4373E-03	.3107E-02	.6845E-04	.1027E-04	.1624E-05	.0	.0
68.00	.7154	.2302E-02	.3279	.1112E-02	.1701	.7538E-03	.1030	.4431E-03	.1900E-02	.5354E-04	.2055E-04	.2297E-05	.2869E-05	.3703E-06
70.00	.7449	.2349E-02	.3172	.1094E-02	.1965	.8103E-03	.1113	.4605E-03	.2262E-02	.5841E-04	.9760E-04	.5007E-05	.4399E-04	.1450E-05
72.00	.7388	.2339E-02	.3761	.1191E-02	.1792	.7737E-03	.1463	.5281E-03	.1207E-02	.4266E-04	.5291E-03	.1166E-04	.8855E-03	.6507E-05
74.00	.8931	.2572E-02	.3431	.1138E-02	.3083	.1015E-02	.5698E-01	.3295E-03	.5731E-03	.2940E-04	.5702E-03	.1210E-04	.1005E-02	.6932E-05
76.00	.6461	.2187E-02	.4205	.1259E-02	.1034	.5877E-03	.2538E-01	.2199E-03	.3620E-03	.2337E-04	.5291E-03	.1166E-04	.1081E-02	.7188E-05
78.00	.9863	.2845E-02	.4314	.1343E-02	.1666	.7854E-03	.2315E-01	.2211E-03	.3175E-03	.2304E-04	.9030E-03	.1603E-04	.1119E-02	.7700E-05
80.00	.9913	.2852E-02	.2758	.1074E-02	.6063E-01	.4738E-03	.9910E-02	.1447E-03	.3810E-03	.2523E-04	.6813E-03	.1393E-04	.1187E-02	.7929E-05
82.00	.5404	.2106E-02	.7884E-01	.5740E-03	.3995E-01	.3846E-03	.2006E-02	.6508E-04	.2223E-03	.1927E-04	.6327E-03	.1342E-04	.1303E-02	.8310E-05
84.00	.1377	.1063E-02	.5296E-01	.4704E-03	.3236E-02	.1094E-03	.1805E-02	.6174E-04	.3810E-03	.2523E-04	.7679E-03	.1478E-04	.1365E-02	.8503E-05
86.00	.9869E-01	.8299E-03	.2938E-01	.3504E-03	.3447E-02	.1130E-03	.4413E-02	.9653E-04	.2540E-03	.2060E-04	.7354E-03	.1447E-04	.1399E-02	.8609E-05
88.00	.9370E-01	.8769E-03	.1683E-01	.2652E-03	.1751E-01	.2546E-03	.7262E-02	.1238E-03	.1905E-03	.1784E-04	.6381E-02	.1348E-04	.1007E-02	.7302E-05
90.00	.9027E-01	.8607E-03	.5177E-01	.4651E-03	.6513E-01	.4910E-03	.8024E-04	.1302E-04	.0	.0	.5948E-04	.4114E-05	.1691E-03	.2993E-05
92.00	.6549E-02	.2318E-03	.5637E-02	.1535E-03	.7948E-02	.1715E-03	.4012E-04	.9204E-05	.0	.0	.0	.0	.0	.0
94.00	.2448E-01	.4482E-03	.5867E-01	.4951E-03	.7034E-04	.1614E-04	.4012E-04	.9204E-05	.0	.0	.0	.0	.0	.0
96.00	.2077	.1305E-02	.1985E-02	.9107E-04	.7034E-04	.1614E-04	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.4443E-01	.6038E-03	.1588E-03	.2576E-04	.7034E-04	.1614E-04	.4012E-04	.9204E-05	.0	.0	.5407E-05	.1241E-05	.5033E-05	.5163E-06
100.0	.7796E-03	.7998E-04	.0	.0	.0	.0	.0	.0	.0	.0	.1081E-04	.1754E-05	.2315E-04	.1107E-05

Table 11

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$	$\vartheta = 33^\circ$	$\vartheta = 43^\circ$	$\vartheta = 53^\circ$	$\vartheta = 73^\circ$	$\vartheta = 93^\circ$	$\vartheta = 113^\circ$						
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
20.00	.9008	.2583E-02	.6197	.1529E-02	.4514	.1228E-02	.3149	.7747E-03	.1320	.4462E-03	.4399E-01	.1063E-03	.1234E-01	.2429E-04
22.00	1.211	.2995E-02	.8576	.1798E-02	.6152	.1434E-02	.4359	.9114E-03	.1751	.5139E-03	.5626E-01	.1202E-03	.1528E-01	.2703E-04
24.00	1.395	.3214E-02	.9894	.1932E-02	.7096	.1540E-02	.5047	.9807E-03	.2007	.5502E-03	.6203E-01	.1262E-03	.1592E-01	.2759E-04
26.00	1.545	.3383E-02	1.075	.2013E-02	.7755	.1610E-02	.5491	.1023E-02	.2202	.5763E-03	.6343E-01	.1276E-03	.1469E-01	.2650E-04
28.00	1.584	.3425E-02	1.136	.2070E-02	.8159	.1651E-02	.5677	.1040E-02	.2210	.5773E-03	.6041E-01	.1246E-03	.1302E-01	.2495E-04
30.00	1.676	.3523E-02	1.167	.2098E-02	.8339	.1669E-02	.5870	.1058E-02	.2253	.5829E-03	.5709E-01	.1211E-03	.1126E-01	.2321E-04
32.00	1.713	.3561E-02	1.193	.2121E-02	.8408	.1676E-02	.5958	.1066E-02	.2160	.5708E-03	.5204E-01	.1156E-03	.9425E-02	.2123E-04
34.00	1.783	.3634E-02	1.206	.2133E-02	.8458	.1681E-02	.5915	.1062E-02	.2120	.5654E-03	.4656E-01	.1094E-03	.7930E-02	.1947E-04
36.00	1.792	.3643E-02	1.219	.2144E-02	.8460	.1681E-02	.5812	.1052E-02	.1991	.5480E-03	.4051E-01	.1020E-03	.6537E-02	.1768E-04
38.00	1.870	.3721E-02	1.195	.2123E-02	.8354	.1671E-02	.5768	.1048E-02	.1939	.5408E-03	.3683E-01	.9726E-04	.5420E-02	.1610E-04
40.00	1.864	.3716E-02	1.179	.2109E-02	.8156	.1651E-02	.5680	.1040E-02	.1864	.5302E-03	.3223E-01	.9099E-04	.4127E-02	.1405E-04
42.00	1.872	.3724E-02	1.173	.2103E-02	.8191	.1654E-02	.5548	.1028E-02	.1674	.5024E-03	.2749E-01	.8403E-04	.3298E-02	.1256E-04
44.00	1.869	.3720E-02	1.161	.2092E-02	.8066	.1642E-02	.5633	.1036E-02	.1633	.4963E-03	.2466E-01	.7958E-04	.2388E-02	.1068E-04
46.00	1.837	.3688E-02	1.151	.2084E-02	.7907	.1625E-02	.5423	.1017E-02	.1494	.4747E-03	.2208E-01	.7531E-04	.1795E-02	.9264E-05
48.00	1.872	.3723E-02	1.149	.2081E-02	.7713	.1605E-02	.5322	.1007E-02	.1387	.4573E-03	.1924E-01	.7030E-04	.1275E-02	.7807E-05
50.00	1.866	.3717E-02	1.126	.2061E-02	.7630	.1597E-02	.5117	.9875E-03	.1302	.4431E-03	.1473E-01	.6152E-04	.9581E-03	.6768E-05
52.00	1.916	.3767E-02	1.125	.2060E-02	.7456	.1578E-02	.5053	.9813E-03	.1246	.4335E-03	.1201E-01	.5554E-04	.7334E-03	.5922E-05
54.00	1.934	.3784E-02	1.130	.2064E-02	.7390	.1571E-02	.5001	.9763E-03	.1102	.4076E-03	.9432E-02	.4922E-04	.4953E-03	.4866E-05
56.00	1.893	.3744E-02	1.081	.2019E-02	.7338	.1566E-02	.4775	.9539E-03	.1019	.3920E-03	.7608E-02	.4421E-04	.3815E-03	.4271E-05
58.00	1.852	.3704E-02	1.064	.2003E-02	.7126	.1543E-02	.4582	.9345E-03	.8865E-01	.3657E-03	.6447E-02	.4069E-04	.3834E-03	.4282E-05
60.00	1.896	.3747E-02	1.060	.1999E-02	.6995	.1529E-02	.4602	.9365E-03	.7405E-01	.3342E-03	.5219E-02	.3661E-04	.2381E-03	.3374E-05
62.00	1.853	.3704E-02	1.007	.1948E-02	.6563	.1481E-02	.4480	.9240E-03	.6256E-01	.3072E-03	.4176E-02	.3275E-04	.7459E-04	.1888E-05
64.00	1.868	.3719E-02	.9953	.1937E-02	.6466	.1470E-02	.4249	.8998E-03	.5300E-01	.2827E-03	.3581E-02	.3033E-04	.7650E-05	.6048E-06
66.00	1.927	.3778E-02	.9942	.1936E-02	.6782	.1505E-02	.4192	.8938E-03	.4618E-01	.2639E-03	.4495E-02	.3398E-04	.9562E-06	.2138E-06
68.00	1.992	.3841E-02	1.017	.1958E-02	.6873	.1515E-02	.3933	.8657E-03	.4136E-01	.2497E-03	.3601E-02	.3041E-04	.1912E-05	.3024E-06
70.00	2.010	.3858E-02	1.015	.1957E-02	.6935	.1522E-02	.3729	.8430E-03	.4353E-01	.2562E-03	.1880E-02	.2198E-04	.1912E-05	.3024E-06
72.00	2.098	.3942E-02	1.026	.1967E-02	.6608	.1486E-02	.3182	.7787E-03	.3617E-01	.2336E-03	.5651E-04	.3810E-05	.5737E-05	.5237E-06
74.00	2.077	.3922E-02	1.009	.1950E-02	.6531	.1477E-02	.2955	.7504E-03	.4938E-01	.2729E-03	.6678E-04	.4142E-05	.1243E-04	.7709E-06
76.00	2.084	.3933E-02	.9743	.1917E-02	.5608	.1369E-02	.3130	.7723E-03	.4866E-01	.2709E-03	.3082E-04	.2814E-05	.9562E-05	.6762E-06
78.00	1.830	.3875E-02	.9129	.1953E-02	.5275	.1437E-02	.2816	.7711E-03	.6709E-01	.3348E-03	.5407E-05	.1241E-05	.1007E-04	.7302E-06
80.00	1.947	.3997E-02	.8408	.1874E-02	.5394	.1413E-02	.3006	.7967E-03	.9843E-03	.4056E-04	.1622E-04	.2149E-05	.1610E-04	.9237E-06
82.00	1.850	.3896E-02	.9323	.1974E-02	.6753	.1581E-02	.2351	.7045E-03	.1905E-03	.1784E-04	.1081E-04	.1754E-05	.2617E-04	.1177E-05
84.00	1.981	.4032E-02	.7414	.1760E-02	.5029	.1364E-02	.5256	.1054E-02	.1270E-03	.1457E-04	.8652E-04	.4562E-05	.7952E-04	.2052E-05
86.00	1.752	.3798E-02	1.069	.2113E-02	.3784	.1184E-02	.6655	.1185E-02	.9526E-04	.1262E-04	.2055E-03	.7647E-05	.3473E-03	.4289E-05
88.00	2.965	.4932E-02	.9056	.1945E-02	1.015	.1938E-02	.2277	.6934E-03	.1588E-03	.1629E-04	.5516E-03	.1253E-04	.8405E-03	.6673E-05
90.00	1.843	.3889E-02	1.109	.2153E-02	1.248	.2149E-02	.3731E-02	.8876E-04	.4445E-03	.2726E-04	.1206E-02	.1853E-04	.2066E-02	.1046E-04
92.00	1.085	.2583E-02	1.823	.2760E-02	.3101	.1071E-02	.1685E-02	.5965E-04	.6033E-03	.3175E-04	.1633E-02	.2156E-04	.2650E-02	.1185E-04
94.00	1.797	.3840E-02	.9.927	.6441E-02	.5275E-02	.1397E-03	.1003E-02	.4602E-04	.7620E-03	.3569E-04	.1974E-02	.2370E-04	.3286E-02	.1319E-04
96.00	13.00	.1033E-01	.4970E-01	.4557E-03	.2462E-02	.9547E-04	.1003E-02	.4602E-04	.1080E-02	.4248E-04	.2736E-02	.2791E-04	.4589E-02	.1559E-04
98.00	.8815	.2690E-02	.5558E-02	.1524E-03	.2181E-02	.8985E-04	.8423E-03	.4218E-04	.1207E-02	.4490E-04	.4077E-02	.3406E-04	.7098E-02	.1939E-04
100.00	.4927E-01	.6358E-03	.1096E-01	.2140E-03	.2012E-01	.2729E-03	.1809E-01	.1955E-03	.3499E-01	.2418E-03	.1190	.1841E-03	.2174	.1073E-03

Table 12

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.2763E-04	.6907E-05	.7007E-05	.1752E-05	.3671E-05	.6490E-06
4.000	.1628E-02	.1612E-03	.8868E-03	.8780E-04	.6789E-03	.6722E-04	.1345E-02	.6278E-04	.1508E-02	.4803E-04	.1194E-02	.2152E-04	.9502E-03	.9827E-05
6.000	.8956E-02	.3781E-03	.8720E-02	.2753E-03	.6676E-02	.2108E-03	.6476E-02	.1378E-03	.5330E-02	.9029E-04	.6159E-02	.4888E-04	.5508E-02	.2366E-04
8.000	.6172	.3139E-02	.4898	.2064E-02	.4180	.1668E-02	.2924	.9256E-03	.1838	.5303E-03	.1039	.2008E-03	.6786E-01	.8304E-04
10.00	4.253	.8240E-02	3.537	.5546E-02	2.787	.4307E-02	2.186	.2531E-02	1.291	.1405E-02	.7390	.5354E-03	.4428	.2121E-03
12.00	4.199	.8108E-02	3.305	.5361E-02	2.574	.4139E-02	2.002	.2422E-02	1.120	.1309E-02	.6737	.5112E-03	.4106	.2043E-03
14.00	4.202	.8190E-02	3.137	.5222E-02	2.397	.3994E-02	1.860	.2335E-02	.9690	.1217E-02	.5415	.4583E-03	.3173	.1796E-03
16.00	4.175	.8674E-02	3.055	.5475E-02	2.319	.4174E-02	1.698	.2370E-02	.8172	.1188E-02	.4340	.4360E-03	.2379	.1652E-03
18.00	4.292	.8278E-02	3.018	.5123E-02	2.196	.3823E-02	1.577	.2150E-02	.7113	.1043E-02	.3512	.3691E-03	.1795	.1351E-03
20.00	4.347	.8330E-02	2.966	.5078E-02	2.093	.3732E-02	1.461	.2065E-02	.6224	.9757E-03	.2852	.3326E-03	.1360	.1176E-03
22.00	4.270	.8257E-02	2.888	.5011E-02	1.973	.3624E-02	1.340	.1981E-02	.5418	.9103E-03	.2285	.2677E-03	.1013	.1015E-03
24.00	4.207	.8195E-02	2.792	.4927E-02	1.828	.3488E-02	1.233	.1901E-02	.4633	.8418E-03	.1845	.2675E-03	.7626E-01	.8803E-04
26.00	4.167	.8156E-02	2.687	.4833E-02	1.744	.3407E-02	1.117	.1809E-02	.4054	.7874E-03	.1484	.2400E-03	.5689E-01	.7603E-04
28.00	4.005	.7996E-02	2.541	.4701E-02	1.610	.3273E-02	.9941	.1707E-02	.3424	.7237E-03	.1195	.2153E-03	.4196E-01	.6530E-04
30.00	3.879	.8361E-02	2.442	.4896E-02	1.491	.3347E-02	.8694	.1696E-02	.2913	.7092E-03	.9333E-01	.2022E-03	.3080E-01	.5945E-04
32.00	3.751	.7738E-02	2.285	.4457E-02	1.370	.3019E-02	.7837	.1515E-02	.2507	.6192E-03	.7361E-01	.1690E-03	.2251E-01	.4783E-04
34.00	3.605	.7586E-02	2.101	.4273E-02	1.246	.2880E-02	.6937	.1426E-02	.2083	.5645E-03	.5748E-01	.1493E-03	.1635E-01	.4076E-04
36.00	3.345	.7308E-02	1.950	.4118E-02	1.123	.2734E-02	.6149	.1342E-02	.1774	.5209E-03	.4379E-01	.1303E-03	.1136E-01	.3398E-04
38.00	3.113	.7049E-02	1.792	.3947E-02	1.004	.2585E-02	.5455	.1264E-02	.1459	.4724E-03	.3448E-01	.1157E-03	.8205E-02	.2888E-04
40.00	2.836	.6729E-02	1.635	.3770E-02	.8829	.2424E-02	.4600	.1161E-02	.1208	.4299E-03	.2596E-01	.1004E-03	.5615E-02	.2389E-04
42.00	2.675	.6535E-02	1.495	.3605E-02	.7825	.2282E-02	.3894	.1068E-02	.9613E-01	.3835E-03	.1941E-01	.8677E-04	.3822E-02	.1971E-04
44.00	2.434	.6623E-02	1.324	.3605E-02	.6895	.2276E-02	.3362	.1055E-02	.7841E-01	.3679E-03	.1420E-01	.7884E-04	.2671E-02	.1750E-04
46.00	2.124	.5823E-02	1.203	.3234E-02	.6075	.2011E-02	.2806	.9067E-03	.6134E-01	.3063E-03	.1039E-01	.6349E-04	.1854E-02	.1373E-04
48.00	2.045	.5714E-02	1.052	.3024E-02	.5391	.1894E-02	.2424	.8428E-03	.4972E-01	.2758E-03	.7959E-02	.5557E-04	.1227E-02	.1116E-04
50.00	1.802	.5363E-02	.9311	.2845E-02	.4351	.1702E-02	.1998	.7651E-03	.3705E-01	.2381E-03	.5328E-02	.4546E-04	.7498E-03	.8729E-05
52.00	1.704	.5216E-02	.8934	.2787E-02	.4302	.1692E-02	.1773	.7209E-03	.3289E-01	.2243E-03	.4293E-02	.4081E-04	.5045E-03	.7160E-05
54.00	1.478	.4857E-02	.7591	.2569E-02	.3338	.1490E-02	.1343	.6272E-03	.2410E-01	.1920E-03	.3146E-02	.3493E-04	.3524E-02	.5985E-05
56.00	1.251	.4470E-02	.6131	.2309E-02	.2713	.1344E-02	.1069	.5597E-03	.1508E-01	.1519E-03	.1985E-02	.2775E-04	.2160E-03	.4685E-05
58.00	1.029	.4306E-02	.5113	.2240E-02	.1998	.1225E-02	.7976E-01	.5137E-03	.1210E-01	.1445E-03	.1240E-02	.2330E-04	.1230E-03	.3756E-05
60.00	.8248	.3629E-02	.4265	.1926E-02	.1652	.1049E-02	.6182E-01	.4256E-03	.8529E-02	.1142E-03	.8243E-03	.1788E-04	.6848E-04	.3163E-05
62.00	.7181	.3386E-02	.3433	.1728E-02	.1294	.9282E-03	.4513E-01	.3637E-03	.5356E-02	.9051E-04	.4814E-03	.1367E-04	.5528E-04	.2370E-05
64.00	.5778	.3037E-02	.2715	.1536E-02	.9436E-01	.7525E-03	.3497E-01	.3201E-03	.4004E-02	.7826E-04	.3825E-03	.1218E-04	.4146E-04	.2053E-05
66.00	.5284	.2905E-02	.2233	.1393E-02	.7060E-01	.6855E-03	.2760E-01	.2844E-03	.2860E-02	.6614E-04	.2044E-03	.8905E-05	.1900E-04	.1390E-05
68.00	.4296	.2619E-02	.1612	.1184E-02	.5227E-01	.5898E-03	.1853E-01	.2330E-03	.2106E-02	.5676E-04	.9892E-04	.6194E-05	.4319E-04	.2095E-05
70.00	.3045	.2205E-02	.1496	.1140E-02	.4209E-01	.5293E-03	.1485E-01	.2086E-03	.1482E-02	.4761E-04	.7254E-04	.5305E-05	.6392E-04	.2549E-05
72.00	.2725	.2216E-02	.1085	.1032E-02	.3402E-01	.5056E-03	.9845E-02	.1805E-03	.7183E-03	.3522E-04	.4204E-04	.4291E-05	.4038E-04	.2152E-05
74.00	.2394	.1955E-02	.8853E-01	.8773E-03	.3399E-01	.3996E-03	.7821E-02	.1514E-03	.3640E-03	.2360E-04	.2638E-04	.3199E-05	.4492E-04	.2137E-05
76.00	.1740	.1667E-02	.8823E-01	.8758E-03	.1890E-01	.3546E-03	.5530E-02	.1273E-03	.1040E-03	.1261E-04	.3297E-04	.3576E-05	.3283E-04	.1826E-05
78.00	.1466	.1530E-02	.3887E-01	.5813E-03	.8939E-02	.2439E-03	.2092E-02	.7830E-04	.0	.0	.1319E-04	.2262E-05	.4665E-04	.2177E-05
80.00	.9988E-01	.1263E-02	.2439E-01	.4604E-03	.4639E-02	.1757E-03	.9465E-03	.5266E-04	.5200E-04	.8919E-05	.3297E-04	.3576E-05	.2110E-04	.1778E-05
82.00	.6134E-01	.9896E-03	.1360E-01	.3438E-03	.3055E-02	.1426E-03	.1993E-03	.2416E-04	.0	.0	.6594E-05	.1599E-05	.5183E-04	.2295E-05
84.00	.2171E-01	.5888E-03	.3695E-02	.1792E-03	.1131E-03	.2744E-04	.3487E-03	.3197E-04	.2600E-04	.6306E-05	.5276E-04	.4524E-05	.6565E-04	.2583E-05
86.00	.6242E-02	.3157E-03	.1330E-02	.1075E-03	.1131E-03	.2744E-04	.0	.0	.0	.0	.6594E-05	.1599E-05	.1900E-04	.1390E-05
88.00	.3528E-02	.2372E-03	.1182E-02	.1014E-03	.0	.0	.4582E-04	.1208E-04	.0	.0	.0	.0	.1728E-05	.4190E-06
90.00	.1357E-02	.1472E-03	.1478E-03	.3585E-04	.0	.0	.0	.0	.0	.0	.0	.0	.3455E-05	.5926E-06
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.2714E-03	.6582E-04	.0	.0	.0	.0	.0	.0	.0	.0	.7007E-05	.1752E-05	.1555E-04	.1257E-05
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6594E-05	.1599E-05	.1209E-04	.1109E-05
98.00	.2714E-03	.6582E-04	.0	.0	.0	.0	.0	.0	.0	.0	.4616E-04	.4232E-05	.4146E-04	.2053E-05
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.3380E-03	.2274E-04	.1675E-02	.2549E-04	.2614E-02	.163CE-04

Table 13

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 70^\circ$	$\vartheta = 90^\circ$	$\vartheta = 110^\circ$
(MeV)	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0
16.00	1.265	.4774E-02	.8872	.2951E-02	.4526E-03	.5488E-04	.4982E-03	.3821E-04
18.00	1.802	.5364E-02	1.310	.3375E-02	.6938	.2283E-02	.4561	.1228E-02
20.00	1.835	.5413E-02	1.318	.3385E-02	.9754	.2548E-02	.7083	.1441E-02
22.00	1.822	.5393E-02	1.290	.3348E-02	.9838	.2559E-02	.7065	.1439E-02
24.00	1.777	.5327E-02	1.280	.3336E-02	.9628	.2531E-02	.6922	.1424E-02
26.00	1.775	.5323E-02	1.224	.3262E-02	.9137	.2466E-02	.6511	.1381E-02
28.00	1.653	.5138E-02	1.186	.3211E-02	.8693	.2405E-02	.6171	.1345E-02
30.00	1.648	.5450E-02	1.155	.3367E-02	.8400	.2364E-02	.5968	.1322E-02
32.00	1.639	.5115E-02	1.145	.3154E-02	.8396	.2512E-02	.5598	.1361E-02
34.00	1.665	.5155E-02	1.152	.3165E-02	.8091	.2321E-02	.5329	.1250E-02
36.00	1.718	.5237E-02	1.136	.3142E-02	.7852	.2286E-02	.4907	.1199E-02
38.00	1.758	.5258E-02	1.136	.3143E-02	.7694	.2263E-02	.4675	.1170E-02
40.00	1.794	.5351E-02	1.099	.3091E-02	.7316	.2207E-02	.4318	.1125E-02
42.00	1.760	.5300E-02	1.088	.3076E-02	.6942	.2149E-02	.3999	.1083E-02
44.00	1.865	.5797E-02	1.090	.3271E-02	.6752	.2120E-02	.3718	.1044E-02
46.00	1.854	.5441E-02	1.095	.3085E-02	.6646	.2235E-02	.3367	.1055E-02
48.00	1.753	.5291E-02	1.011	.2956E-02	.6144	.2022E-02	.3152	.9611E-03
50.00	1.794	.5352E-02	1.005	.2956E-02	.5489	.1911E-02	.2765	.9002E-03
52.00	1.647	.5127E-02	.8816	.2956E-02	.5046	.1833E-02	.2522	.8596E-03
54.00	1.708	.5223E-02	.8775	.2768E-02	.4673	.1745E-02	.2132	.7904E-03
56.00	1.705	.5217E-02	.8628	.2762E-02	.4272	.1686E-02	.2014	.7681E-03
58.00	1.638	.5433E-02	.8090	.2739E-02	.4132	.1658E-02	.1800	.7263E-03
60.00	1.614	.5077E-02	.7436	.2818E-02	.3580	.1640E-02	.1698	.7495E-03
62.00	1.435	.4786E-02	.6745	.2543E-02	.3470	.1520E-02	.1463	.6547E-03
64.00	1.371	.4678E-02	.6024	.2422E-02	.3013	.1416E-02	.1157	.5823E-03
66.00	1.292	.4541E-02	.5251	.2289E-02	.2401	.1264E-02	.9789E-01	.5356E-03
68.00	1.059	.4111E-02	.4416	.2137E-02	.2128	.1190E-02	.8444E-01	.4974E-03
70.00	.8457	.3674E-02	.3692	.1959E-02	.1811	.1098E-02	.8195E-01	.4900E-03
72.00	.7016	.3556E-02	.2805	.1792E-02	.1339	.9439E-03	.6033E-01	.4204E-03
74.00	.7227	.3397E-02	.4756	.1659E-02	.1825	.1171E-02	.4054E-01	.3662E-03
76.00	.8758	.3739E-02	.1864	.2033E-02	.8792E-01	.7649E-03	.2062E-01	.2458E-03
78.00	.3876	.2487E-02	.1605	.1273E-02	.4967E-01	.5750E-03	.1410E-01	.2033E-03
80.00	.3783	.2458E-02	.1605	.1181E-02	.3100E-01	.4543E-03	.3535E-02	.1074E-03
82.00	.1210	.1390E-02	.5720E-01	.7052E-03	.1222E-01	.2852E-03	.2142E-02	.7923E-04
84.00	.5598E-01	.5786E-03	.2690E-01	.4836E-03	.4073E-02	.1647E-03	.1494E-03	.2093E-04
86.00	.1058E-01	.4111E-03	.9607E-02	.2890E-03	.0	.0	.0	.0
88.00	.1086E-02	.1316E-03	.1478E-03	.3585E-04	.0	.0	.0	.0
90.00	.1086E-02	.1316E-03	.1478E-03	.3585E-04	.0	.0	.0	.0
92.00	.2884E-03	.7209E-04	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.2714E-03	.6582E-04	.0	.0	.0	.0	.0	.0

Table 14

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.00	.4885E-02	.2793E-03	.2956E-02	.1603E-03	.2376E-02	.1258E-03	.2690E-02	.8878E-04	.1274E-02	.4415E-04	.8375E-03	.1802E-04	.5166E-03	.7245E-05
22.00	.1314	.1448E-02	.9415E-01	.9047E-03	.7626E-01	.7124E-03	.4668E-01	.3698E-03	.1940E-01	.1722E-03	.5955E-02	.4806E-04	.1550E-02	.1255E-04
24.00	.6155	.3135E-02	.9415	.1981E-02	.3448	.1515E-02	.2349	.8297E-03	.1051	.4010E-03	.3438E-01	.1155E-03	.8249E-02	.2895E-04
26.00	.6837	.3304E-02	.4737	.2029E-02	.3607	.1549E-02	.2599	.8272E-03	.1168	.4226E-03	.3866E-01	.1229E-03	.8782E-02	.2987E-04
28.00	.7146	.3378E-02	.4902	.2064E-02	.3718	.1573E-02	.2800	.9058E-03	.1168	.4226E-03	.3534E-01	.1171E-03	.7353E-02	.2734E-04
30.00	.7301	.3622E-02	.4932	.2200E-02	.3586	.1641E-02	.2633	.9333E-03	.1065	.4288E-03	.3053E-01	.1156E-03	.5525E-02	.2518E-04
32.00	.6967	.3335E-02	.4817	.2046E-02	.3513	.1529E-02	.2627	.8773E-03	.1037	.3982E-03	.2634E-01	.1011E-03	.4162E-02	.2057E-04
34.00	.7385	.3434E-02	.4735	.2029E-02	.3544	.1536E-02	.2593	.8717E-03	.9543E-01	.3820E-03	.2196E-01	.9229E-04	.3092E-02	.1773E-04
36.00	.7010	.3345E-02	.4814	.2046E-02	.3422	.1509E-02	.2586	.8706E-03	.9262E-01	.3764E-03	.1921E-01	.8632E-04	.2268E-02	.1518E-04
38.00	.7230	.3397E-02	.4750	.2032E-02	.3452	.1516E-02	.2487	.8537E-03	.8534E-01	.3613E-03	.1599E-01	.7876E-04	.1674E-02	.1304E-04
40.00	.7290	.3411E-02	.4781	.2039E-02	.3476	.1521E-02	.2512	.8579E-03	.7764E-01	.3446E-03	.1309E-01	.7126E-04	.1090E-02	.1053E-04
42.00	.7236	.3399E-02	.4747	.2032E-02	.3431	.1511E-02	.2442	.8459E-03	.7525E-01	.3393E-03	.1032E-01	.6327E-04	.8085E-03	.9065E-05
44.00	.7319	.3632E-02	.4648	.2136E-02	.3300	.1575E-02	.2362	.8839E-03	.6832E-01	.3435E-03	.8828E-02	.6218E-04	.5617E-03	.8028E-05
46.00	.7301	.3414E-02	.4718	.2025E-02	.3339	.1491E-02	.2363	.8321E-03	.5759E-01	.2968E-03	.6970E-02	.5200E-04	.4025E-03	.6396E-05
48.00	.7455	.3450E-02	.4546	.1988E-02	.3207	.1461E-02	.2143	.7924E-03	.5486E-01	.2897E-03	.5368E-02	.4563E-04	.2868E-03	.5399E-05
50.00	.8104	.3597E-02	.4724	.2026E-02	.3183	.1455E-02	.2164	.7963E-03	.5460E-01	.2653E-03	.3831E-02	.3855E-04	.1538E-03	.3953E-05
52.00	.8123	.3601E-02	.4629	.2006E-02	.3038	.1422E-02	.1996	.7647E-03	.4012E-01	.2477E-03	.3357E-02	.3608E-04	.7256E-04	.2716E-05
54.00	.8533	.3691E-02	.4669	.2015E-02	.3118	.1441E-02	.1961	.7581E-03	.3292E-01	.2244E-03	.2486E-02	.3105E-04	.2591E-04	.1623E-05
56.00	.9426	.3879E-02	.5001	.2085E-02	.2979	.1408E-02	.1812	.7286E-03	.3391E-01	.2277E-03	.2255E-02	.2958E-04	.2591E-04	.1623E-05
58.00	.9435	.4124E-02	.4774	.2165E-02	.3002	.1502E-02	.1791	.7698E-03	.3039E-01	.2291E-03	.1513E-02	.2574E-04	.1836E-04	.1451E-05
60.00	.9092	.3810E-02	.4592	.1998E-02	.2735	.1349E-02	.1610	.6869E-03	.2475E-01	.1946E-03	.5210E-03	.1422E-04	.8638E-05	.9369E-06
62.00	.9040	.3799E-02	.4716	.2025E-02	.2639	.1325E-02	.1458	.6537E-03	.2585E-01	.1988E-03	.5078E-03	.1403E-04	.2419E-04	.1508E-05
64.00	1.057	.4109E-02	.5007	.2086E-02	.2888	.1386E-02	.1522	.6678E-03	.1818E-01	.1667E-03	.3099E-03	.1096E-04	.1900E-04	.1390E-05
66.00	1.030	.4056E-02	.4576	.1995E-02	.2512	.1293E-02	.1463	.6547E-03	.1131E-01	.1315E-03	.9892E-04	.6194E-05	.2937E-04	.1728E-05
68.00	1.147	.4280E-02	.5142	.2114E-02	.2504	.1291E-02	.1560	.6761E-03	.9205E-02	.1187E-03	.5276E-04	.4524E-05	.2591E-04	.1623E-05
70.00	1.364	.4666E-02	.5046	.2094E-02	.4189	.1670E-02	.1236	.6018E-03	.5408E-02	.9095E-04	.1319E-04	.2262E-05	.3283E-04	.1824E-05
72.00	1.106	.4464E-02	.6969	.2615E-02	.2754	.1439E-02	.1176	.6237E-03	.2486E-02	.6552E-04	.5605E-04	.4954E-05	.4405E-04	.2248E-05
74.00	1.904	.5514E-02	.5253	.2137E-02	.4452	.1721E-02	.5350E-01	.3960E-03	.2340E-03	.1892E-04	.1978E-04	.2770E-05	.2419E-04	.1568E-05
76.00	1.490	.4877E-02	.7988	.2635E-02	.1318	.2367E-03	.6875E-01	.4488E-03	.7801E-04	.1092E-04	.1319E-04	.2262E-05	.3974E-04	.2010E-05
78.00	2.666	.6524E-02	.1918	.1291E-02	.2610	.1318E-02	.1516	.6665E-03	.2600E-04	.6306E-05	.1319E-04	.2262E-05	.1900E-04	.1390E-05
80.00	.3254	.2279E-02	.4237	.1919E-02	.9244E-01	.7844E-03	.3138E-02	.9590E-04	.0	.0	.4616E-04	.4232E-05	.1382E-04	.1185E-05
82.00	.7084	.3363E-02	.5631E-01	.6997E-03	.4379E-01	.5399E-03	.4982E-03	.3821E-04	.0	.0	.1978E-04	.2770E-05	.2591E-04	.1623E-05
84.00	.1856	.1722E-02	.1457	.1126E-02	.1131E-02	.8678E-04	.4982E-04	.1208E-04	.2600E-04	.6306E-05	.0	.0	.3974E-04	.2010E-05
86.00	.2152	.1854E-02	.1035E-02	.9484E-04	.2263E-03	.3881E-04	.4982E-04	.1208E-04	.0	.0	.0	.0	.0	.0
88.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 15

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 23^\circ$		$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
18.00	.1415	.1128E-02	.1026	.7089E-03	.7542E-01	.5317E-03	.5694E-01	.3065E-03	.2467E-01	.1458E-03	.8891E-02	.4407E-04	.2645E-02	.1230E-04
20.00	.1906	.1309E-02	.1348	.8125E-03	.1030	.6214E-03	.7479E-01	.3513E-03	.2968E-01	.1599E-03	.1000E-01	.4674E-04	.2579E-02	.1215E-04
22.00	.2104	.1375E-02	.1616	.8894E-03	.1195	.6693E-03	.8588E-01	.3851E-03	.3518E-01	.1741E-03	.1051E-01	.4791E-04	.2522E-02	.1201E-04
24.00	.2368	.1459E-02	.1840	.9492E-03	.1315	.7021E-03	.9720E-01	.4005E-03	.3695E-01	.1784E-03	.1037E-01	.4759E-04	.2175E-02	.1116E-04
26.00	.2719	.1564E-02	.1985	.9858E-03	.1460	.7399E-03	.1036	.4136E-03	.3844E-01	.1820E-03	.1025E-01	.4732E-04	.1869E-02	.1034E-04
28.00	.3077	.1663E-02	.2193	.1036E-02	.1563	.7654E-03	.1089	.4240E-03	.3952E-01	.1845E-03	.9966E-02	.4666E-04	.1599E-02	.9567E-05
30.00	.3240	.1707E-02	.2273	.1055E-02	.1657	.7881E-03	.1184	.4421E-03	.3930E-01	.1840E-03	.8843E-02	.4395E-04	.1300E-02	.8627E-05
32.00	.3582	.1795E-02	.2425	.1090E-02	.1723	.8036E-03	.1239	.4523E-03	.3933E-01	.1841E-03	.8201E-02	.4233E-04	.1125E-02	.8025E-05
34.00	.3476	.1768E-02	.2402	.1084E-02	.1751	.8100E-03	.1215	.4478E-03	.3742E-01	.1795E-03	.7166E-02	.3957E-04	.8219E-03	.6859E-05
36.00	.3836	.1857E-02	.2579	.1124E-02	.1916	.8475E-03	.1323	.4672E-03	.3621E-01	.1766E-03	.6274E-02	.3702E-04	.5907E-03	.5814E-05
38.00	.4066	.1912E-02	.2583	.1125E-02	.1828	.8277E-03	.1291	.4616E-03	.3273E-01	.1679E-03	.5134E-02	.3349E-04	.4579E-03	.5119E-05
40.00	.3924	.1878E-02	.2697	.1149E-02	.1853	.8335E-03	.1258	.4556E-03	.3065E-01	.1625E-03	.3998E-02	.2955E-04	.3400E-03	.4411E-05
42.00	.3818	.1853E-02	.2635	.1136E-02	.1901	.8442E-03	.1258	.4556E-03	.2855E-01	.1568E-03	.3006E-02	.2563E-04	.2163E-03	.3519E-05
44.00	.3974	.1890E-02	.2689	.1147E-02	.1954	.8559E-03	.1257	.4554E-03	.2515E-01	.1472E-03	.2705E-02	.2431E-04	.1923E-03	.3318E-05
46.00	.4217	.1947E-02	.2739	.1158E-02	.2029	.8720E-03	.1245	.4532E-03	.2383E-01	.1433E-03	.2045E-02	.2114E-04	.1168E-03	.2585E-05
48.00	.4307	.1968E-02	.2834	.1178E-02	.1984	.8625E-03	.1204	.4458E-03	.1974E-01	.1304E-03	.1700E-02	.1927E-04	.9615E-04	.2346E-05
50.00	.4249	.1955E-02	.2801	.1171E-02	.1923	.8490E-03	.1101	.4263E-03	.1802E-01	.1246E-03	.1368E-02	.1728E-04	.3663E-04	.1448E-05
52.00	.4654	.2046E-02	.3060	.1224E-02	.1999	.8656E-03	.1162	.4379E-03	.1649E-01	.1192E-03	.1053E-02	.1517E-04	.2404E-04	.1173E-05
54.00	.4846	.2087E-02	.3080	.1228E-02	.1993	.8643E-03	.1059	.4180E-03	.1458E-01	.1121E-03	.9569E-03	.1446E-04	.1374E-04	.8867E-06
56.00	.5317	.2187E-02	.3071	.1226E-02	.1936	.8518E-03	.1008	.4078E-03	.1538E-01	.1151E-03	.6729E-03	.1212E-04	.4579E-05	.5119E-05
58.00	.5535	.2231E-02	.2997	.1211E-02	.1821	.8262E-03	.9252E-01	.3507E-03	.1066E-01	.9585E-04	.4282E-03	.9672E-05	.6868E-05	.6270E-06
60.00	.5720	.2268E-02	.3170	.1246E-02	.1697	.7975E-03	.9090E-01	.3873E-03	.1056E-01	.9538E-04	.8738E-04	.4369E-05	.3434E-05	.4433E-06
62.00	.6164	.2354E-02	.2924	.1197E-02	.1706	.7996E-03	.8796E-01	.3810E-03	.1509E-01	.1140E-03	.2622E-04	.2393E-05	.0	.0
64.00	.6197	.2360E-02	.2984	.1209E-02	.1713	.8013E-03	.8030E-01	.3640E-03	.1664E-01	.1197E-03	.3932E-04	.2931E-05	.1145E-05	.2560E-06
66.00	.6296	.2379E-02	.3025	.1217E-02	.2213	.9108E-03	.7958E-01	.3624E-03	.1947E-02	.4095E-04	.2622E-04	.2393E-05	.0	.0
68.00	.6384	.2396E-02	.3430	.1296E-02	.1462	.7403E-03	.8770E-01	.3804E-03	.1016E-02	.2959E-04	.0	.0	.1145E-05	.2560E-06
70.00	.8648	.2788E-02	.3921	.1386E-02	.1754	.8107E-03	.3723E-01	.2479E-03	.3618E-03	.1765E-04	.2622E-04	.2393E-05	.3777E-04	.1470E-05
72.00	.7909	.2667E-02	.2666	.1143E-02	.4797	.1341E-02	.3509E-01	.2406E-03	.5513E-03	.2179E-04	.5811E-03	.1127E-04	.9959E-03	.7550E-05
74.00	.6689	.2452E-02	.4996	.1564E-02	.5442	.1428E-02	.5809E-01	.3096E-03	.9303E-03	.2831E-04	.6641E-03	.1205E-04	.1043E-02	.7726E-05
76.00	.8959	.2838E-02	.8676	.2061E-02	.8029E-01	.5486E-03	.3466E-02	.7563E-04	.3618E-03	.1765E-04	.8039E-02	.1325E-04	.1061E-02	.7793E-05
78.00	2.657	.5145E-02	.7886E-01	.6541E-03	.6889E-01	.5349E-03	.1980E-02	.6018E-04	.5259E-03	.2240E-04	.8003E-03	.1392E-04	.1260E-02	.8940E-05
80.00	.1972	.1402E-02	.2691	.1208E-02	.9391E-02	.1975E-03	.3405E-02	.7891E-04	.4715E-03	.2121E-04	.1021E-02	.1572E-04	.1368E-02	.9313E-05
82.00	.4384	.2090E-02	.1453E-01	.2008E-03	.5761E-02	.1547E-03	.3127E-02	.7562E-04	.4352E-03	.2038E-04	.8876E-03	.1466E-04	.1356E-02	.5272E-05
84.00	.2518E-01	.5008E-03	.6700E-02	.1907E-03	.3551E-02	.1214E-03	.9381E-03	.4142E-04	.3990E-03	.1951E-04	.8922E-03	.1470E-04	.1572E-02	.9986E-05
86.00	.2253E-01	.4737E-03	.1185E-01	.2536E-03	.2762E-02	.1071E-03	.9033E-02	.1285E-03	.4715E-03	.2121E-04	.1076E-02	.1614E-04	.1578E-02	.1001E-04
88.00	.4619E-01	.6783E-03	.9483E-02	.2268E-03	.1065E-01	.2104E-03	.1675E-01	.1750E-03	.4715E-03	.2121E-04	.8049E-03	.1396E-04	.1242E-02	.8876E-05
90.00	.1448	.1201E-02	.7071E-01	.6194E-03	.1271	.7266E-03	.3822E-03	.2644E-04	.3627E-04	.5884E-05	.9658E-04	.4835E-05	.1916E-03	.3486E-05
92.00	.1174E-01	.3419E-03	.1917E-01	.3225E-03	.1444E-01	.2449E-03	.1042E-03	.1381E-04	.1814E-04	.4160E-05	.0	.0	.0	.0
94.00	.2707E-01	.5193E-03	.7834E-02	.2062E-03	.6313E-03	.5121E-04	.0	.0	.0	.0	.4599E-05	.1055E-05	.0	.0
96.00	.2264	.1502E-02	.3299E-02	.1338E-03	.0	.0	.0	.0	.1814E-04	.4160E-05	.0	.0	.1205E-05	.2764E-06
98.00	.1855	.1359E-02	.0	.0	.0	.0	.0	.6949E-04	.1127E-04	.0	.0	.0	.8435E-05	.7314E-06
100.0	.5679E-03	.7522E-04	.0	.0	.7891E-04	.1810E-04	.6949E-04	.1127E-04	.0	.0	.9198E-05	.1492E-05	.4820E-05	.5529E-06

Table 16

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 23^\circ$		$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
20.00	.9725	.2957E-02	.6677	.1808E-02	.4787	.1340E-02	.3319	.7401E-03	.1334	.3390E-03	.5042E-01	.1050E-03	.1424E-01	.2855E-04
22.00	1.305	.3425E-02	.9158	.2118E-02	.6517	.1563E-02	.4371	.8493E-03	.1786	.3922E-03	.6504E-01	.1192E-03	.1748E-01	.3163E-04
24.00	1.514	.3690E-02	1.051	.2269E-02	.7384	.1664E-02	.5183	.9248E-03	.2023	.4175E-03	.7084E-01	.1244E-03	.1787E-01	.3198E-04
26.00	1.674	.3879E-02	1.171	.2395E-02	.8052	.1737E-02	.5659	.9664E-03	.2208	.4361E-03	.7278E-01	.1261E-03	.1686E-01	.3107E-04
28.00	1.744	.3960E-02	1.208	.2432E-02	.8457	.1780E-02	.5958	.9916E-03	.2211	.4364E-03	.7014E-01	.1238E-03	.1512E-01	.2941E-04
30.00	1.840	.4067E-02	1.257	.2480E-02	.8730	.1809E-02	.6089	.1002E-02	.2238	.4391E-03	.6646E-01	.1205E-03	.1327E-01	.2756E-04
32.00	1.871	.4101E-02	1.279	.2502E-02	.8875	.1824E-02	.6093	.1003E-02	.2174	.4327E-03	.6119E-01	.1156E-03	.1087E-01	.2494E-04
34.00	1.936	.4172E-02	1.281	.2504E-02	.8872	.1824E-02	.6031	.9976E-03	.2130	.4283E-03	.5527E-01	.1099E-03	.9100E-02	.2282E-04
36.00	1.999	.4239E-02	1.297	.2520E-02	.8706	.1806E-02	.5945	.9909E-03	.2007	.4158E-03	.4977E-01	.1043E-03	.7356E-02	.2052E-04
38.00	2.058	.4301E-02	1.288	.2512E-02	.8637	.1799E-02	.5957	.9915E-03	.1933	.4080E-03	.4425E-01	.9832E-04	.6039E-02	.1859E-04
40.00	2.011	.4252E-02	1.285	.2509E-02	.8525	.1788E-02	.5818	.9799E-03	.1825	.3965E-03	.3846E-01	.9166E-04	.4860E-02	.1668E-04
42.00	2.037	.4280E-02	1.292	.2515E-02	.8570	.1792E-02	.5720	.9716E-03	.1707	.3834E-03	.3375E-01	.8586E-04	.3714E-02	.1458E-04
44.00	2.047	.4290E-02	1.279	.2502E-02	.8504	.1785E-02	.5591	.9605E-03	.1629	.3746E-03	.2944E-01	.8020E-04	.2768E-02	.1259E-04
46.00	2.022	.4264E-02	1.245	.2469E-02	.8096	.1742E-02	.5487	.9516E-03	.1502	.3598E-03	.2566E-01	.7488E-04	.2103E-02	.1097E-04
48.00	2.037	.4280E-02	1.243	.2467E-02	.8112	.1744E-02	.5312	.9363E-03	.1415	.3492E-03	.2224E-01	.6971E-04	.1466E-02	.9161E-05
50.00	2.048	.4291E-02	1.213	.2437E-02	.7891	.1720E-02	.5169	.9231E-03	.1280	.3321E-03	.1776E-01	.6229E-04	.1142E-02	.8086E-05
52.00	2.012	.4253E-02	1.207	.2431E-02	.7905	.1721E-02	.5222	.9283E-03	.1252	.3284E-03	.1485E-01	.5696E-04	.8265E-03	.6878E-05
54.00	2.032	.4275E-02	1.205	.2429E-02	.7833	.1713E-02	.5017	.9100E-03	.1146	.3142E-03	.1162E-01	.5039E-04	.6719E-03	.6201E-05
56.00	2.037	.4279E-02	1.185	.2408E-02	.7665	.1695E-02	.4883	.8977E-03	.1025	.2971E-03	.9560E-02	.4570E-04	.4945E-03	.5320E-05
58.00	2.084	.4328E-02	1.184	.2408E-02	.7435	.1669E-02	.4831	.8929E-03	.8614E-01	.2724E-03	.6938E-02	.3893E-04	.4281E-03	.4950E-05
60.00	2.134	.4380E-02	1.160	.2383E-02	.7318	.1656E-02	.4642	.8753E-03	.7439E-01	.2531E-03	.5872E-02	.3582E-04	.3033E-03	.4167E-05
62.00	2.062	.4306E-02	1.111	.2332E-02	.7202	.1643E-02	.4567	.8682E-03	.6781E-01	.2417E-03	.5379E-02	.3428E-04	.8471E-04	.2202E-05
64.00	2.032	.4275E-02	1.070	.2289E-02	.7059	.1627E-02	.4236	.8361E-03	.5136E-01	.2103E-03	.3482E-02	.2758E-04	.1374E-04	.8867E-06
66.00	2.104	.4350E-02	1.100	.2321E-02	.7013	.1621E-02	.4017	.8142E-03	.4543E-01	.1978E-03	.5392E-02	.3432E-04	.5723E-05	.5723E-06
68.00	2.200	.4448E-02	1.101	.2322E-02	.7336	.1658E-02	.3843	.7964E-03	.4087E-01	.1876E-03	.4579E-02	.3163E-04	.3434E-05	.4432E-06
70.00	2.251	.4498E-02	1.143	.2366E-02	.6562	.1568E-02	.3929	.8052E-03	.4323E-01	.1930E-03	.1691E-02	.1922E-04	.2289E-05	.3620E-06
72.00	2.334	.4581E-02	1.143	.2365E-02	.6665	.1581E-02	.3207	.7275E-03	.3601E-01	.1761E-03	.2097E-03	.6769E-05	.4579E-05	.5119E-06
74.00	2.245	.4493E-02	1.019	.2234E-02	.6300	.1537E-02	.3308	.7389E-03	.5451E-01	.2167E-03	.9612E-04	.4583E-05	.6868E-05	.6270E-06
76.00	2.077	.4321E-02	1.134	.2356E-02	.5836	.1479E-02	.2448	.6356E-03	.4932E-01	.2061E-03	.5680E-04	.3523E-05	.6868E-05	.6270E-06
78.00	2.097	.4571E-02	.9594	.2281E-02	.4914	.1429E-02	.2531	.6803E-03	.3123E-01	.1726E-03	.1380E-04	.1828E-05	.4820E-05	.5529E-06
80.00	2.170	.4650E-02	1.058	.2396E-02	.5123	.1459E-02	.3850	.8390E-03	.4244E-02	.6364E-04	.2300E-04	.2359E-05	.1084E-04	.8293E-06
82.00	1.915	.4368E-02	.7433	.2008E-02	.5103	.1456E-02	.2575	.6861E-03	.9249E-03	.2971E-04	.9198E-05	.1492E-05	.2289E-04	.1205E-05
84.00	1.929	.4384E-02	.9673	.2291E-02	.7092	.1716E-02	.1507	.5250E-03	.1306E-02	.3530E-04	.5519E-04	.3655E-05	.5784E-04	.1515E-05
86.00	2.246	.4730E-02	1.857	.3174E-02	.6094	.1591E-02	1.390	.1594E-02	.1451E-03	.1177E-04	.1656E-03	.6331E-05	.2603E-03	.4063E-05
88.00	2.899	.5374E-02	.4681	.1594E-02	.4255	.1329E-02	1.124	.1434E-02	.1088E-03	.1019E-04	.4737E-03	.1071E-04	.8868E-03	.7499E-05
90.00	2.996	.5463E-02	1.550	.2900E-02	2.917	.3481E-02	.1921E-01	.1874E-03	.7073E-03	.2598E-04	.1596E-02	.1965E-04	.2211E-02	.1184E-04
92.00	3.006	.5472E-02	5.568	.5496E-02	2.730	.3367E-02	.2050E-02	.6122E-04	.7798E-03	.2728E-04	.1982E-02	.2191E-04	.2564E-02	.1371E-04
94.00	2.173	.4653E-02	1.855	.3172E-02	.4569E-01	.4356E-03	.8686E-03	.3985E-04	.8886E-03	.2912E-04	.2323E-02	.2371E-04	.3583E-02	.1507E-04
96.00	11.72	.1080E-01	.2442	.1151E-02	.1736E-02	.8492E-04	.1286E-02	.4848E-04	.1469E-02	.3744E-04	.2943E-02	.2669E-04	.4662E-02	.1719E-04
98.00	2.154	.4633E-02	.5257E-02	.1689E-03	.1184E-02	.7012E-04	.1563E-02	.5347E-04	.1832E-02	.4181E-04	.4323E-02	.3235E-04	.7107E-02	.2123E-04
100.0	.3691E-01	.6064E-03	.6700E-02	.1907E-03	.3472E-02	.1201E-03	.2606E-02	.6903E-04	.4643E-02	.6657E-04	.1980E-01	.6924E-04	.3756E-01	.4881E-04

Table 17

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 20^\circ$	$\vartheta = 30^\circ$	$\vartheta = 40^\circ$	$\vartheta = 50^\circ$	$\vartheta = 70^\circ$	$\vartheta = 90^\circ$	$\vartheta = 110^\circ$
(MeV)	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$
2.000	.2653E-03	.6632E-04	.0	.0	.9354E-04	.2338E-04	.5491E-04	.1373E-04
4.000	.1498E-02	.1483E-03	.8230E-03	.8149E-04	.1321E-02	.8269E-04	.1137E-02	.5879E-04
6.000	.7240E-02	.3261E-03	.9190E-02	.2723E-03	.4402E-02	.1510E-03	.5685E-02	.1315E-03
8.000	.6254	.3031E-02	.5514	.2109E-02	.3962	.1432E-02	.2822	.9263E-03
10.00	4.111	.7770E-02	3.430	.5260E-02	2.717	.3751E-02	2.079	.2514E-02
12.00	3.903	.7571E-02	3.130	.5025E-02	2.429	.3547E-02	1.894	.2400E-02
14.00	3.804	.7474E-02	2.973	.4898E-02	2.248	.3412E-02	1.699	.2273E-02
16.00	3.759	.7894E-02	2.877	.5119E-02	2.065	.3475E-02	1.535	.2295E-02
18.00	3.849	.7510E-02	2.753	.4713E-02	1.982	.3204E-02	1.397	.2061E-02
20.00	3.884	.7553E-02	2.692	.4660E-02	1.858	.3102E-02	1.280	.1973E-02
22.00	3.630	.7500E-02	2.622	.4599E-02	1.745	.3006E-02	1.155	.1874E-02
24.00	3.799	.7469E-02	2.496	.4488E-02	1.643	.2917E-02	1.073	.1806E-02
26.00	3.696	.7368E-02	2.405	.4405E-02	1.514	.2800E-02	.9820	.1728E-02
28.00	3.629	.7300E-02	2.293	.4302E-02	1.438	.2729E-02	.8727	.1629E-02
30.00	3.442	.7554E-02	2.177	.4453E-02	1.309	.2766E-02	.7889	.1645E-02
32.00	3.261	.6920E-02	2.044	.4061E-02	1.210	.2503E-02	.7090	.1468E-02
34.00	3.106	.6753E-02	1.897	.3912E-02	1.099	.2385E-02	.6263	.1380E-02
36.00	2.920	.6548E-02	1.786	.3796E-02	1.017	.2295E-02	.5584	.1303E-02
38.00	2.721	.6321E-02	1.610	.3604E-02	.9066	.2167E-02	.4892	.1220E-02
40.00	2.534	.6100E-02	1.500	.3478E-02	.8039	.2040E-02	.4222	.1133E-02
42.00	2.316	.5832E-02	1.312	.3253E-02	.7086	.1916E-02	.3630	.1050E-02
44.00	2.096	.5895E-02	1.168	.3262E-02	.6364	.1929E-02	.3001	.1015E-02
46.00	1.922	.5313E-02	1.065	.2931E-02	.5597	.1703E-02	.2634	.8948E-03
48.00	1.775	.5105E-02	1.013	.2858E-02	.4910	.1595E-02	.2281	.8372E-03
50.00	1.550	.4772E-02	.8322	.2591E-02	.4142	.1465E-02	.1817	.7432E-03
52.00	1.524	.4732E-02	.8542	.2625E-02	.3807	.1404E-02	.1650	.7081E-03
54.00	1.267	.4313E-02	.6835	.2348E-02	.3018	.1250E-02	.1324	.6344E-03
56.00	1.095	.4009E-02	.5595	.2125E-02	.2526	.1144E-02	.9933E-01	.5495E-03
58.00	.9205	.3906E-02	.4669	.2062E-02	.1989	.1078E-02	.7786E-01	.5169E-03
60.00	.7944	.3416E-02	.3923	.1779E-02	.1649	.9241E-03	.6284E-01	.4371E-03
62.00	.6736	.3145E-02	.3263	.1623E-02	.1319	.8264E-03	.4832E-01	.3833E-03
64.00	.5685	.2889E-02	.2734	.1485E-02	.9499E-01	.7014E-03	.3488E-01	.3256E-03
66.00	.4936	.2692E-02	.2093	.1300E-02	.7870E-01	.6384E-03	.2801E-01	.2918E-03
68.00	.3910	.2396E-02	.1656	.1156E-02	.5740E-01	.5452E-03	.1742E-01	.2301E-03
70.00	.3151	.2151E-02	.1354	.1045E-02	.4587E-01	.4874E-03	.1571E-01	.2185E-03
72.00	.2440	.2011E-02	.1099	.1000E-02	.3442E-01	.4486E-03	.1170E-01	.2003E-03
74.00	.2135	.1771E-02	.9313E-01	.8668E-03	.3090E-01	.4000E-03	.1049E-01	.1786E-03
76.00	.2002	.1715E-02	.7681E-01	.7872E-03	.1884E-01	.3123E-03	.7390E-02	.1499E-03
78.00	.1263	.1362E-02	.4759E-01	.6197E-03	.1039E-01	.2319E-03	.4134E-02	.1121E-03
80.00	.1044	.1238E-02	.3141E-01	.5034E-03	.7131E-02	.1922E-03	.2636E-02	.8951E-04
82.00	.6966E-01	.1011E-02	.1742E-01	.3749E-03	.2377E-02	.1105E-03	.1137E-02	.5879E-04
84.00	.4020E-01	.7683E-03	.1097E-01	.2975E-03	.2465E-02	.1130E-03	.7752E-03	.4854E-04
86.00	.3246E-01	.6904E-03	.6447E-02	.2281E-03	.8803E-03	.6752E-04	.5685E-03	.4157E-04
88.00	.1723E-01	.5030E-03	.4663E-02	.1940E-03	.3521E-03	.4270E-04	.0	.0
90.00	.1623E-01	.4882E-03	.5601E-03	.6801E-04	.0	.0	.0	.0
92.00	.1061E-02	.1326E-03	.2915E-03	.5152E-04	.9354E-04	.2338E-04	.0	.0
94.00	.4993E-03	.8563E-04	.1372E-03	.3327E-04	.8803E-04	.2135E-04	.0	.0
96.00	.2497E-03	.6055E-04	.1372E-03	.3327E-04	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.4115E-03	.5762E-04	.1761E-03	.3020E-04	.3618E-03	.3316E-04

Table 18

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.4993E-03	.8563E-04	.5486E-03	.6653E-04	.5282E-03	.5230E-04	.6718E-03	.4519E-04	.9727E-04	.1055E-04	.3878E-03	.7950E-05	.9828E-04	.2648E-05
16.00	1.051	.4174E-02	.7913	.2685E-02	.5340	.1767E-02	.3376	.1076E-02	.2146	.5266E-03	.6026E-01	.1053E-03	.2306E-01	.4310E-04
18.00	1.404	.4541E-02	1.050	.2911E-02	.7453	.1965E-02	.5526	.1296E-02	.2988	.5847E-03	.1202	.1400E-03	.4024E-01	.5359E-04
20.00	1.40E	.4547E-02	1.034	.2888E-02	.7496	.1970E-02	.5478	.1290E-02	.2767	.5627E-03	.1177	.1385E-03	.3527E-01	.5017E-04
22.00	1.387	.4513E-02	1.031	.2884E-02	.7469	.1967E-02	.5304	.1270E-02	.2565	.5418E-03	.1019	.1289E-03	.2764E-01	.4442E-04
24.00	1.388	.4515E-02	1.002	.2843E-02	.7118	.1920E-02	.5049	.1239E-02	.2297	.5127E-03	.8575E-01	.1182E-03	.2061E-01	.3835E-04
26.00	1.392	.4522E-02	.9819	.2815E-02	.6776	.1873E-02	.4701	.1195E-02	.2071	.4869E-03	.7188E-01	.1082E-03	.1560E-01	.3337E-04
28.00	1.298	.4366E-02	.9228	.2729E-02	.6515	.1837E-02	.4557	.1182E-02	.1890	.4651E-03	.5881E-01	.9789E-04	.1159E-01	.2876E-04
30.00	1.291	.4626E-02	.9242	.2901E-02	.6473	.1945E-02	.4378	.1226E-02	.1647	.4612E-03	.4876E-01	.9472E-04	.8597E-02	.2632E-04
32.00	1.255	.4292E-02	.8980	.2692E-02	.6225	.1795E-02	.4109	.1118E-02	.1464	.4094E-03	.4093E-01	.8167E-04	.6308E-02	.2122E-04
34.00	1.317	.4398E-02	.9009	.2696E-02	.6148	.1784E-02	.3983	.1100E-02	.1318	.3884E-03	.3312E-01	.7346E-04	.4589E-02	.1810E-04
36.00	1.345	.4445E-02	.8636	.2640E-02	.5852	.1741E-02	.3656	.1060E-02	.1163	.3648E-03	.2736E-01	.6678E-04	.3365E-02	.1551E-04
38.00	1.344	.4442E-02	.8743	.2656E-02	.5602	.1703E-02	.3377	.1013E-02	.1031	.3434E-03	.2178E-01	.5958E-04	.2406E-02	.1310E-04
40.00	1.395	.4526E-02	.8577	.2631E-02	.5589	.1701E-02	.3159	.9800E-03	.9330E-01	.3268E-03	.1717E-01	.5289E-04	.1705E-02	.1103E-04
42.00	1.434	.4588E-02	.8747	.2657E-02	.5278	.1653E-02	.3052	.9633E-03	.8091E-01	.3043E-03	.1376E-01	.4736E-04	.1184E-02	.9193E-05
44.00	1.448	.4899E-02	.8636	.2805E-02	.5070	.1722E-02	.2771	.9752E-03	.7053E-01	.3018E-03	.1054E-01	.4404E-04	.8186E-03	.8121E-05
46.00	1.435	.4591E-02	.8434	.2609E-02	.4849	.1585E-02	.2514	.8742E-03	.5932E-01	.2605E-03	.8472E-02	.3716E-04	.5848E-03	.6460E-05
48.00	1.427	.4578E-02	.8006	.2542E-02	.4248	.1483E-02	.2193	.8164E-03	.5007E-01	.2394E-03	.6117E-02	.3157E-04	.3531E-03	.5020E-05
50.00	1.445	.4606E-02	.7865	.2519E-02	.4157	.1467E-02	.1969	.7737E-03	.4346E-01	.2230E-03	.4801E-02	.2797E-04	.2536E-03	.4254E-05
52.00	1.277	.4330E-02	.6839	.2349E-02	.3714	.1387E-02	.1725	.7241E-03	.3362E-01	.1961E-03	.3424E-02	.2362E-04	.1602E-03	.3381E-05
54.00	1.313	.4392E-02	.6876	.2355E-02	.3443	.1335E-02	.1612	.7001E-03	.2943E-01	.1835E-03	.2712E-02	.2102E-04	.8736E-04	.2497E-05
56.00	1.352	.4456E-02	.6449	.2281E-02	.3364	.1320E-02	.1420	.6571E-03	.2453E-01	.1675E-03	.1870E-02	.1746E-04	.4732E-04	.1838E-05
58.00	1.293	.4629E-02	.6357	.2406E-02	.3026	.1330E-02	.1271	.6605E-03	.2013E-01	.1613E-03	.1442E-02	.1629E-04	.2836E-04	.1512E-05
60.00	1.257	.4257E-02	.6132	.2224E-02	.2807	.1206E-02	.1147	.5906E-03	.1864E-01	.1460E-03	.1119E-02	.1351E-04	.1541E-04	.1177E-05
62.00	1.138	.4088E-02	.5330	.2074E-02	.2385	.1111E-02	.9437E-01	.5356E-03	.1294E-01	.1217E-03	.6122E-03	.5398E-05	.1699E-04	.1101E-05
64.00	1.036	.3900E-02	.4644	.1936E-02	.2080	.1038E-02	.8227E-01	.5001E-03	.1086E-01	.1115E-03	.3380E-03	.7421E-05	.7280E-05	.7208E-06
66.00	.9287	.3693E-02	.4266	.1855E-02	.1841	.9764E-03	.7096E-01	.4644E-03	.8385E-02	.5795E-04	.1607E-03	.5117E-05	.1456E-04	.1019E-05
68.00	.8416	.3516E-02	.3713	.1731E-02	.1529	.8895E-03	.6537E-01	.4458E-03	.4863E-02	.7460E-04	.1274E-03	.4557E-05	.1820E-04	.1140E-05
70.00	.7375	.3291E-02	.2923	.1536E-02	.1375	.8439E-03	.5220E-01	.3983E-03	.2685E-02	.5543E-04	.5541E-04	.3005E-05	.8493E-05	.7786E-06
72.00	.5536	.3030E-02	.3196	.1706E-02	.1383	.8993E-03	.3800E-01	.3611E-03	.1716E-02	.4708E-04	.3826E-04	.2663E-05	.1418E-04	.1069E-05
74.00	.5577	.2862E-02	.2817	.1508E-02	.8214E-01	.6522E-03	.2770E-01	.2902E-03	.6225E-03	.2669E-04	.1385E-04	.1502E-05	.8493E-05	.7786E-06
76.00	.5318	.2795E-02	.1981	.1264E-02	.5414E-01	.5295E-03	.1266E-01	.1962E-03	.2918E-03	.1827E-04	.1662E-04	.1646E-05	.1213E-04	.9306E-06
78.00	.3582	.2418E-02	.1325	.1034E-02	.3504E-01	.4260E-03	.9974E-02	.1741E-03	.2334E-03	.1634E-04	.5541E-05	.9502E-06	.8493E-05	.7786E-06
80.00	.2062	.1740E-02	.6186E-01	.7065E-03	.2659E-01	.3710E-03	.3721E-02	.1064E-03	.0	.0	.5541E-05	.9502E-06	.8493E-05	.7786E-06
82.00	.7490E-01	.1049E-02	.4554E-01	.6061E-03	.4842E-02	.1583E-03	.1912E-02	.7624E-04	.0	.0	.1108E-04	.1344E-05	.1213E-04	.9306E-06
84.00	.6192E-01	.9536E-03	.1372E-01	.3327E-03	.3609E-02	.1367E-03	.9302E-03	.5318E-04	.0	.0	.8311E-05	.1164E-05	.1092E-04	.8828E-06
86.00	.6841E-01	.1002E-02	.9327E-02	.2743E-03	.2465E-02	.1130E-03	.5168E-04	.1253E-04	.0	.0	.2770E-05	.6719E-06	.2427E-05	.4162E-06
88.00	.2297E-01	.5808E-03	.3018E-02	.1560E-03	.0	.0	.0	.0	.1945E-04	.4718E-05	.0	.0	.0	.0
90.00	.1273E-01	.4324E-03	.1372E-03	.3327E-04	.8803E-04	.2135E-04	.0	.0	.0	.0	.2770E-05	.6719E-06	.0	.0
92.00	.2653E-03	.6632E-04	.1457E-03	.3643E-04	.0	.0	.0	.0	.0	.0	.2770E-05	.6719E-06	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.5168E-04	.1253E-04	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2770E-05	.6719E-06	.1213E-05	.2943E-06
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2427E-05	.4162E-06
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5541E-05	.9502E-06	.2427E-05	.4162E-06

Table 19

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.00	.2247E-02	.1817E-03	.1509E-02	.1103E-03	.2113E-02	.1046E-03	.2119E-02	.8026E-04	.6225E-03	.2669E-04	.1366E-02	.1492E-04	.2936E-03	.4578E-05
22.00	.9837E-01	.1202E-02	.7791E-01	.7528E-03	.4622E-01	.4892E-03	.2646E-01	.2836E-03	.1763E-01	.1420E-03	.3258E-02	.2304E-04	.8663E-03	.7863E-05
24.00	.4302	.2513E-02	.3179	.1602E-02	.2187	.1064E-02	.1518	.6794E-03	.8287E-01	.3080E-03	.2233E-01	.6033E-04	.4752E-02	.1842E-04
26.00	.4422	.2548E-02	.3365	.1648E-02	.2448	.1126E-02	.1746	.7286E-03	.8632E-01	.3143E-03	.2757E-01	.6703E-04	.5074E-02	.1903E-04
28.00	.4991	.2707E-02	.3354	.1645E-02	.2392	.1113E-02	.1806	.7409E-03	.8219E-01	.3067E-03	.2609E-01	.6521E-04	.4300E-02	.1752E-04
30.00	.5109	.2910E-02	.3345	.1745E-02	.2476	.1203E-02	.1776	.7808E-03	.7871E-01	.3189E-03	.2315E-01	.6526E-04	.3189E-02	.1603E-04
32.00	.4966	.2701E-02	.3289	.1629E-02	.2359	.1105E-02	.1724	.7238E-03	.7394E-01	.2909E-03	.2030E-01	.5751E-04	.2453E-02	.1323E-04
34.00	.5146	.2749E-02	.3259	.1622E-02	.2292	.1090E-02	.1635	.7049E-03	.6508E-01	.2812E-03	.1777E-01	.5381E-04	.1909E-02	.1167E-04
36.00	.5093	.2735E-02	.3352	.1645E-02	.2327	.1098E-02	.1697	.7182E-03	.6644E-01	.2757E-03	.1505E-01	.4552E-04	.1291E-02	.9599E-05
38.00	.5011	.2713E-02	.3260	.1622E-02	.2311	.1094E-02	.1671	.7128E-03	.5504E-01	.2599E-03	.1286E-01	.4578E-04	.1043E-02	.8630E-05
40.00	.5068	.2728E-02	.3186	.1603E-02	.2336	.1100E-02	.1617	.7010E-03	.5852E-01	.2588E-03	.1061E-01	.4159E-04	.6758E-03	.6445E-05
42.00	.4891	.2680E-02	.3280	.1627E-02	.2283	.1087E-02	.1608	.6992E-03	.5455E-01	.2498E-03	.8718E-02	.3769E-04	.4732E-03	.5811E-05
44.00	.4859	.2850E-02	.3056	.1668E-02	.2182	.1129E-02	.1574	.7350E-03	.5033E-01	.2550E-03	.6632E-02	.3571E-04	.3442E-03	.5266E-05
46.00	.5001	.2710E-02	.3230	.1614E-02	.2140	.1053E-02	.1602	.6979E-03	.4457E-01	.2258E-03	.5465E-02	.2585E-04	.2330E-03	.4677E-05
48.00	.5116	.2741E-02	.3160	.1597E-02	.2216	.1071E-02	.1403	.6531E-03	.3947E-01	.2125E-03	.4585E-02	.2733E-04	.1456E-03	.3224E-05
50.00	.5403	.2817E-02	.3227	.1614E-02	.2108	.1045E-02	.1406	.6538E-03	.3346E-01	.1957E-03	.3394E-02	.2352E-04	.1250E-03	.2986E-05
52.00	.5555	.2856E-02	.3144	.1593E-02	.2077	.1037E-02	.1345	.6395E-03	.2982E-01	.1847E-03	.2676E-02	.2088E-04	.8493E-04	.2462E-05
54.00	.5997	.2568E-02	.3081	.1577E-02	.2049	.1030E-02	.1247	.6157E-03	.2667E-01	.1747E-03	.2108E-02	.1854E-04	.4125E-04	.1716E-05
56.00	.6574	.3107E-02	.3234	.1615E-02	.2006	.1019E-02	.1189	.6012E-03	.2348E-01	.1639E-03	.2011E-02	.1810E-04	.1577E-04	.1061E-05
58.00	.6852	.3370E-02	.3288	.1730E-02	.1555	.1069E-02	.1149	.6280E-03	.2394E-01	.1758E-03	.1107E-02	.1427E-04	.7735E-05	.7894E-06
60.00	.6444	.3076E-02	.3081	.1577E-02	.1796	.9644E-03	.1078	.5725E-03	.1967E-01	.1500E-03	.7314E-03	.1092E-04	.1213E-04	.9306E-06
62.00	.7178	.3247E-02	.3175	.1601E-02	.1853	.9796E-03	.1088	.5752E-03	.2120E-01	.1558E-03	.3601E-03	.7661E-05	.7280E-05	.7208E-06
64.00	.7395	.3295E-02	.3330	.1639E-02	.1938	.1002E-02	.1132	.5867E-03	.1368E-01	.1251E-03	.2937E-03	.6518E-05	.1213E-04	.5306E-06
66.00	.7630	.3347E-02	.3227	.1614E-02	.1750	.9520E-03	.1011	.5545E-03	.8015E-02	.9577E-04	.2078E-03	.5819E-05	.1092E-04	.8828E-06
68.00	.8214	.3473E-02	.3343	.1642E-02	.1887	.9886E-03	.1284	.6248E-03	.7120E-02	.9027E-04	.1856E-03	.5500E-05	.1699E-04	.1101E-05
70.00	.9587	.3752E-02	.3488	.1678E-02	.2303	.1092E-02	.1164	.5949E-03	.5233E-02	.7739E-04	.7203E-04	.3426E-05	.1941E-04	.1177E-05
72.00	.8730	.3804E-02	.4236	.1964E-02	.2369	.1177E-02	.7929E-01	.5216E-03	.6201E-03	.2830E-04	.3238E-04	.2441E-05	.1805E-04	.1206E-05
74.00	1.241	.4270E-02	.4402	.1502E-02	.1571	.9021E-03	.5514E-01	.4094E-03	.2587E-02	.5441E-04	.2216E-04	.1900E-05	.1092E-04	.8828E-06
76.00	1.313	.4391E-02	.2680	.1450E-02	.1489	.8780E-03	.2176E-01	.2572E-03	.9338E-03	.3269E-04	.3878E-04	.2514E-05	.1092E-04	.8828E-06
78.00	.7368	.3289E-02	.2813	.1507E-02	.6581E-01	.6013E-03	.1251E-01	.1950E-03	.5833E-04	.8172E-05	.1939E-04	.1778E-05	.2305E-04	.1283E-05
80.00	.4621	.2605E-02	.1671	.1116E-02	.6831E-01	.5948E-03	.3876E-01	.3433E-03	.3891E-04	.6673E-05	.3601E-04	.2423E-05	.1941E-04	.1177E-05
82.00	.2117	.1763E-02	.9066E-01	.8553E-03	.7307E-02	.1945E-03	.3452E-01	.3240E-03	.3891E-04	.6673E-05	.3878E-04	.2514E-05	.3883E-04	.1665E-05
84.00	.1570	.1519E-02	.3292E-02	.1630E-03	.2905E-01	.3879E-03	.9819E-03	.5463E-04	.1945E-04	.4718E-05	.1108E-04	.1344E-05	.1577E-04	.1061E-05
86.00	.1473E-01	.4651E-03	.1673E-01	.3674E-03	.9332E-02	.2198E-03	.0	.0	.0	.0	.8311E-05	.1164E-05	.1213E-05	.2943E-06
88.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 20

Table 20														
ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$	$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
18.00	.1158	.5786E-03	.8106E-01	.6069E-03	.6189E-01	.4248E-03	.4917E-01	.2901E-03	.2262E-01	.1207E-03	.8732E-02	.2831E-04	.2133E-02	.9259E-05
20.00	.1586	.1145E-02	.1136	.7185E-03	.8329E-01	.4929E-03	.5907E-01	.3180E-03	.3007E-01	.1392E-03	.1039E-01	.3087E-04	.2226E-02	.9459E-05
22.00	.1767	.1209E-02	.1362	.7868E-03	.1025	.5469E-03	.7218E-01	.3515E-03	.3340E-01	.1467E-03	.1102E-01	.3180E-04	.2180E-02	.9361E-05
24.00	.2068	.1308E-02	.1497	.8247E-03	.1072	.5590E-03	.7804E-01	.3655E-03	.3472E-01	.1496E-03	.1075E-01	.3141E-04	.1973E-02	.8905E-05
26.00	.2271	.1371E-02	.1619	.8576E-03	.1207	.5934E-03	.8629E-01	.3844E-03	.3536E-01	.1510E-03	.1100E-01	.3177E-04	.1691E-02	.8243E-05
28.00	.2423	.1416E-02	.1910	.9317E-03	.1283	.6118E-03	.9451E-01	.4022E-03	.3888E-01	.1583E-03	.1030E-01	.3074E-04	.1495E-02	.7752E-05
30.00	.2706	.1496E-02	.1910	.9317E-03	.1374	.6331E-03	.9591E-01	.4052E-03	.4002E-01	.1606E-03	.9460E-02	.2947E-04	.1236E-02	.7050E-05
32.00	.2943	.1560E-02	.1988	.9505E-03	.1470	.6549E-03	.1058	.4255E-03	.4002E-01	.1606E-03	.8577E-02	.2806E-04	.9880E-03	.6302E-05
34.00	.2986	.1571E-02	.2033	.9611E-03	.1454	.6512E-03	.1065	.4269E-03	.3800E-01	.1565E-03	.7276E-02	.2584E-04	.7557E-03	.5511E-05
36.00	.3209	.1629E-02	.2159	.9905E-03	.1549	.6722E-03	.1071	.4282E-03	.3694E-01	.1543E-03	.6834E-02	.2504E-04	.6053E-03	.4933E-05
38.00	.3224	.1633E-02	.2192	.9980E-03	.1511	.6638E-03	.1049	.4237E-03	.3337E-01	.1467E-03	.5582E-02	.2263E-04	.4373E-03	.4193E-05
40.00	.3141	.1612E-02	.2205	.1001E-02	.1522	.6662E-03	.1052	.4243E-03	.3234E-01	.1444E-03	.4664E-02	.2069E-04	.2854E-03	.3387E-05
42.00	.3292	.1650E-02	.2122	.9820E-03	.1549	.6722E-03	.1039	.4217E-03	.3086E-01	.1410E-03	.3759E-02	.1857E-04	.2042E-03	.2665E-05
44.00	.3305	.1653E-02	.2192	.9980E-03	.1557	.6739E-03	.1056	.4251E-03	.2788E-01	.1340E-03	.2988E-02	.1656E-04	.1495E-03	.2452E-05
46.00	.3489	.1699E-02	.2343	.1032E-02	.1608	.6847E-03	.1105	.4349E-03	.2650E-01	.1307E-03	.2482E-02	.1509E-04	.1198E-03	.2194E-05
48.00	.3604	.1727E-02	.2338	.1031E-02	.1605	.6842E-03	.1058	.4257E-03	.2418E-01	.1248E-03	.1907E-02	.1323E-04	.6672E-04	.1638E-05
50.00	.3644	.1736E-02	.2467	.1059E-02	.1591	.6811E-03	.1023	.4185E-03	.1963E-01	.1125E-03	.1456E-02	.1156E-04	.4663E-04	.1369E-05
52.00	.3920	.1801E-02	.2395	.1043E-02	.1672	.6984E-03	.1042	.4224E-03	.1776E-01	.1070E-03	.1270E-02	.1080E-04	.3698E-04	.1219E-05
54.00	.3939	.1805E-02	.2510	.1068E-02	.1638	.6913E-03	.9735E-01	.4082E-03	.1504E-01	.9846E-04	.7232E-03	.8147E-05	.2331E-04	.9680E-06
56.00	.4476	.1924E-02	.2666	.1101E-02	.1622	.6877E-03	.9481E-01	.4029E-03	.1529E-01	.9926E-04	.8150E-03	.8648E-05	.4019E-05	.4019E-06
58.00	.4757	.1984E-02	.2625	.1092E-02	.1607	.6846E-03	.8036E-01	.3709E-03	.1286E-01	.9105E-04	.6736E-03	.7863E-05	.2412E-05	.3113E-06
60.00	.5108	.2055E-02	.2675	.1102E-02	.1504	.6622E-03	.7971E-01	.3694E-03	.1081E-01	.8348E-04	.4203E-03	.6211E-05	.3216E-05	.3595E-06
62.00	.5173	.2068E-02	.2617	.1091E-02	.1422	.6440E-03	.7311E-01	.3538E-03	.1106E-01	.8442E-04	.6057E-04	.2358E-05	.8039E-06	.1798E-06
64.00	.5485	.2130E-02	.2653	.1098E-02	.1452	.6507E-03	.7334E-01	.3544E-03	.9268E-02	.7728E-04	.4038E-04	.1925E-05	.1608E-05	.2542E-06
66.00	.5547	.2142E-02	.2692	.1106E-02	.1399	.6388E-03	.7523E-01	.3589E-03	.1261E-01	.9014E-04	.2937E-04	.1642E-05	.0	.0
68.00	.6102	.2247E-02	.2652	.1098E-02	.1398	.6384E-03	.8615E-01	.3841E-03	.1972E-02	.3565E-04	.1285E-04	.1086E-05	.1608E-05	.2542E-06
70.00	.5919	.2213E-02	.2773	.1122E-02	.1392	.6372E-03	.9639E-01	.4062E-03	.1779E-02	.3386E-04	.5874E-04	.2322E-05	.2331E-04	.9680E-06
72.00	.6723	.2358E-02	.2618	.1091E-02	.1911	.7466E-03	.1135	.4408E-03	.2449E-03	.1256E-04	.4644E-03	.6528E-05	.3682E-03	.3847E-05
74.00	.6556	.2329E-02	.3099	.1187E-02	.2424	.8407E-03	.5749E-01	.3137E-03	.4511E-03	.1705E-04	.5341E-03	.7002E-05	.4421E-03	.4216E-05
76.00	.6547	.2327E-02	.2440	.1053E-02	.3331	.9857E-03	.3650E-01	.2500E-03	.1418E-03	.9559E-05	.5268E-03	.6953E-05	.4743E-03	.4366E-05
78.00	.8431	.2780E-02	.6012	.1740E-02	.9726E-01	.5606E-03	.1802E-02	.5847E-04	.3121E-03	.1493E-04	.5410E-03	.7417E-05	.4790E-03	.4619E-05
80.00	2.195	.4485E-02	.3485	.1325E-02	.1138	.6063E-03	.2667E-02	.7113E-04	.4885E-03	.1868E-04	.6840E-03	.8340E-05	.5543E-03	.4968E-05
82.00	.5257	.2195E-02	.1938	.9878E-03	.3438E-02	.1054E-03	.1442E-02	.5230E-04	.1357E-03	.9843E-05	.7130E-03	.8515E-05	.5771E-03	.5070E-05
84.00	.3547	.1803E-02	.4496E-02	.1505E-03	.1842E-02	.7715E-04	.6127E-03	.3409E-04	.1764E-03	.1122E-04	.6840E-03	.8340E-05	.6380E-03	.5331E-05
86.00	.1759E-01	.4015E-03	.5931E-02	.1728E-03	.2395E-02	.8797E-04	.5659E-02	.1036E-03	.1085E-03	.8804E-05	.7226E-03	.8572E-05	.6160E-03	.5236E-05
88.00	.3065E-01	.5300E-03	.1521E-01	.2767E-03	.3807E-02	.1109E-03	.1799E-01	.1847E-03	.1357E-03	.9843E-05	.5854E-03	.7716E-05	.4610E-03	.4565E-05
90.00	.9960E-01	.9554E-03	.4544E-01	.4783E-03	.4169E-01	.3670E-03	.4325E-03	.2864E-04	.2714E-04	.4402E-05	.1043E-03	.3257E-05	.9562E-04	.2064E-05
92.00	.1045E-01	.3094E-03	.1129E-01	.2384E-03	.1965E-01	.2520E-03	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.2020E-01	.4302E-03	.1358E-01	.2615E-03	.6140E-04	.1409E-04	.3604E-04	.8269E-05	.0	.0	.0	.0	.0	.0
96.00	.7313E-01	.8187E-03	.4974E-02	.1583E-03	.0	.0	.0	.0	.0	.0	.1932E-05	.4433E-06	.0	.0
98.00	1.365	.3537E-02	.1913E-03	.3104E-04	.0	.0	.0	.0	.0	.0	.7729E-05	.8865E-06	.9308E-05	.6439E-06
100.0	.6965E-03	.7989E-04	.9566E-04	.2195E-04	.6140E-04	.1409E-04	.0	.0	.1357E-04	.3113E-05	.3864E-05	.6269E-06	.1692E-05	.2745E-06

Table 21

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$	$\vartheta = 33^\circ$	$\vartheta = 43^\circ$	$\vartheta = 53^\circ$	$\vartheta = 73^\circ$	$\vartheta = 93^\circ$	$\vartheta = 113^\circ$						
(MeV)	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$	$\frac{\text{mb}}{\text{MeV.sr}}$	$\pm \Delta$
20.00	.7316	.2460E-02	.5177	.1534E-02	.3629	.1029E-02	.2492	.6532E-03	.1109	.2674E-03	.4415E-01	.6365E-04	.1024E-01	.2029E-04
22.00	.9699	.2832E-02	.6979	.1781E-02	.4514	.1197E-02	.3404	.7634E-03	.1543	.3153E-03	.5780E-01	.7283E-04	.1274E-01	.2263E-04
24.00	1.119	.3043E-02	.8043	.1912E-02	.5682	.1287E-02	.3931	.8204E-03	.1735	.3343E-03	.6399E-01	.7663E-04	.1299E-01	.2285E-04
26.00	1.230	.3190E-02	.8732	.1992E-02	.6195	.1344E-02	.4236	.8516E-03	.1910	.3508E-03	.6602E-01	.7784E-04	.1237E-01	.2230E-04
28.00	1.316	.3299E-02	.9329	.2059E-02	.6395	.1366E-02	.4524	.8801E-03	.1949	.3544E-03	.6363E-01	.7642E-04	.1112E-01	.2114E-04
30.00	1.356	.3349E-02	.9394	.2066E-02	.6727	.1401E-02	.4634	.8907E-03	.1969	.3562E-03	.6067E-01	.7462E-04	.9732E-02	.1978E-04
32.00	1.370	.3367E-02	.9836	.2114E-02	.6896	.1418E-02	.4645	.8918E-03	.1911	.3509E-03	.5592E-01	.7164E-04	.7847E-02	.1776E-04
34.00	1.439	.3450E-02	.9953	.2127E-02	.6869	.1415E-02	.4646	.8919E-03	.1907	.3505E-03	.5128E-01	.6860E-04	.6674E-02	.1638E-04
36.00	1.468	.3485E-02	.9896	.2121E-02	.6760	.1404E-02	.4565	.8840E-03	.1807	.3413E-03	.4631E-01	.6519E-04	.5496E-02	.1486E-04
38.00	1.522	.3548E-02	1.010	.2142E-02	.6793	.1408E-02	.4498	.8775E-03	.1750	.3358E-03	.4116E-01	.6146E-04	.4501E-02	.1345E-04
40.00	1.540	.3569E-02	.9879	.2119E-02	.6591	.1386E-02	.4517	.8794E-03	.1650	.3261E-03	.3609E-01	.5755E-04	.3554E-02	.1195E-04
42.00	1.541	.3571E-02	.9805	.2111E-02	.6538	.1381E-02	.4386	.8665E-03	.1551	.3161E-03	.3193E-01	.5413E-04	.2822E-02	.1065E-04
44.00	1.553	.3584E-02	.9758	.2106E-02	.6427	.1369E-02	.4342	.8622E-03	.1473	.3081E-03	.2784E-01	.5055E-04	.2105E-02	.9199E-05
46.00	1.531	.3559E-02	.9709	.2100E-02	.6375	.1364E-02	.4222	.8502E-03	.1388	.2990E-03	.2425E-01	.4718E-04	.1507E-02	.7784E-05
48.00	1.555	.3587E-02	.9435	.2071E-02	.6276	.1353E-02	.4133	.8411E-03	.1288	.2881E-03	.2107E-01	.4397E-04	.1217E-02	.6994E-05
50.00	1.561	.3594E-02	.9485	.2076E-02	.6144	.1339E-02	.4010	.8286E-03	.1226	.2811E-03	.1715E-01	.3968E-04	.8087E-03	.5701E-05
52.00	1.590	.3626E-02	.9590	.2087E-02	.6063	.1330E-02	.3919	.8191E-03	.1161	.2735E-03	.1414E-01	.3602E-04	.6037E-03	.4926E-05
54.00	1.608	.3647E-02	.9502	.2078E-02	.5995	.1322E-02	.3847	.8116E-03	.1079	.2637E-03	.1107E-01	.3188E-04	.4285E-03	.4150E-05
56.00	1.659	.3705E-02	.9299	.2056E-02	.5720	.1292E-02	.3665	.7921E-03	.9982E-01	.2536E-03	.9132E-02	.2895E-04	.3127E-03	.3545E-05
58.00	1.642	.3685E-02	.9210	.2046E-02	.5600	.1278E-02	.3562	.7809E-03	.9315E-01	.2450E-03	.6364E-02	.2417E-04	.2002E-03	.2837E-05
60.00	1.605	.3644E-02	.8846	.2005E-02	.5433	.1259E-02	.3581	.7830E-03	.7726E-01	.2231E-03	.5422E-02	.2231E-04	.1310E-03	.2295E-05
62.00	1.557	.3589E-02	.8444	.1959E-02	.5280	.1241E-02	.3425	.7658E-03	.6588E-01	.2061E-03	.5059E-02	.2155E-04	.1190E-03	.2187E-05
64.00	1.512	.3536E-02	.8331	.1946E-02	.5161	.1227E-02	.3323	.7543E-03	.5517E-01	.1886E-03	.4213E-02	.1966E-04	.8200E-04	.1815E-05
66.00	1.566	.3599E-02	.8597	.1976E-02	.5265	.1239E-02	.3341	.7563E-03	.4456E-01	.1695E-03	.3214E-02	.1717E-04	.1206E-04	.6962E-06
68.00	1.686	.3734E-02	.8579	.1974E-02	.5271	.1240E-02	.3139	.7331E-03	.4087E-01	.1623E-03	.2667E-02	.1565E-04	.5627E-05	.4756E-06
70.00	1.719	.3771E-02	.8831	.2003E-02	.5402	.1255E-02	.2889	.7033E-03	.4656E-01	.1732E-03	.2355E-02	.1470E-04	.4019E-05	.4019E-06
72.00	1.730	.3783E-02	.9127	.2036E-02	.5380	.1253E-02	.2865	.7004E-03	.4214E-01	.1648E-03	.1806E-02	.1287E-04	.4823E-05	.4403E-06
74.00	1.747	.3801E-02	.8693	.1987E-02	.4726	.1174E-02	.2191	.6124E-03	.3399E-01	.1480E-03	.8994E-04	.2873E-05	.5627E-05	.4756E-06
76.00	1.684	.3732E-02	.8344	.1947E-02	.4742	.1176E-02	.1973	.5812E-03	.2441E-01	.1254E-03	.5507E-04	.2248E-05	.4019E-05	.4019E-06
78.00	1.617	.3850E-02	.8199	.2032E-02	.3896	.1122E-02	.2201	.6462E-03	.3338E-01	.1544E-03	.3285E-04	.1828E-05	.3385E-05	.3883E-06
80.00	1.647	.3885E-02	.7069	.1887E-02	.3714	.1096E-02	.2398	.6744E-03	.5975E-01	.2066E-03	.3671E-04	.1932E-05	.7616E-05	.5824E-06
82.00	1.499	.3707E-02	.6500	.1809E-02	.4956	.1265E-02	.1656	.5605E-03	.4206E-03	.1733E-04	.3285E-04	.1828E-05	.1015E-04	.6725E-06
84.00	1.313	.3469E-02	.7376	.1927E-02	.6022	.1395E-02	.1565	.5449E-03	.2849E-03	.1426E-04	.5410E-04	.2346E-05	.2539E-04	.1063E-05
86.00	1.631	.3867E-02	.7280	.1914E-02	.3839	.1114E-02	.5893	.1057E-02	.1628E-03	.1078E-04	.1700E-03	.4158E-05	.1159E-03	.2272E-05
88.00	1.581	.3807E-02	.8603	.2081E-02	.1392	.6707E-03	1.503	.1689E-02	.1764E-03	.1122E-04	.4251E-03	.6575E-05	.3799E-03	.4114E-05
90.00	2.482	.4769E-02	.9061	.2136E-02	.9190	.1723E-02	.9696E-02	.1356E-03	.3528E-03	.1587E-04	.9893E-03	.1003E-04	.8961E-03	.6318E-05
92.00	2.669	.4946E-02	2.833	.3777E-02	4.642	.3873E-02	.1766E-02	.5788E-04	.2714E-03	.1392E-04	.1354E-02	.1174E-04	.1132E-02	.7101E-05
94.00	2.903	.5158E-02	1.770	.2985E-02	.9885E-02	.1787E-03	.2307E-02	.6615E-04	.3935E-03	.1676E-04	.1666E-02	.1301E-04	.1403E-02	.7905E-05
96.00	2.869	.5128E-02	.9863E-01	.7047E-03	.3807E-02	.1105E-03	.8650E-03	.4051E-04	.3392E-03	.1556E-04	.2168E-02	.1485E-04	.1798E-02	.8949E-05
98.00	15.19	.1180E-01	.4305E-02	.1472E-03	.1228E-02	.6299E-04	.1009E-02	.4376E-04	.5020E-03	.1893E-04	.3055E-02	.1762E-04	.2623E-02	.1081E-04
100.0	.2943E-01	.5193E-03	.1435E-02	.8500E-04	.1351E-02	.6607E-04	.1225E-02	.4822E-04	.1018E-02	.2696E-04	.6805E-02	.2631E-04	.6094E-02	.1647E-04

Table 22

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.2367E-03	.5916E-04	.0	.0	.0	.0	.0	.0	.0	.0	.1367E-04	.2417E-05	.0	.0
4.000	.2005E-02	.1621E-02	.1217E-02	.1116E-03	.1861E-02	.1064E-03	.1717E-02	.8876E-04	.4665E-03	.2530E-04	.5404E-03	.1430E-04	.2555E-03	.6802E-05
6.000	.1292E-01	.4114E-03	.9391E-02	.3099E-03	.9822E-02	.2444E-03	.8427E-02	.1967E-03	.3849E-02	.7267E-04	.4967E-02	.4336E-04	.4713E-02	.2921E-04
8.000	.8221	.3202E-02	.6328	.2544E-02	.4393	.1635E-02	.3940	.1345E-02	.3052	.6472E-03	.1687	.2527E-03	.1116	.1422E-03
10.00	6.066	.8915E-02	4.751	.6971E-02	3.707	.4748E-02	3.081	.3760E-02	1.983	.1650E-02	1.158	.6620E-03	.7373	.3654E-03
12.00	5.677	.8625E-02	4.415	.6721E-02	2.726	.4550E-02	2.726	.3537E-02	1.604	.1484E-02	.8956	.5822E-03	.5460	.3144E-03
14.00	5.510	.8496E-02	4.041	.6429E-02	3.109	.4348E-02	2.426	.3337E-02	1.338	.1355E-02	.7085	.5178E-03	.4025	.2700E-03
16.00	5.370	.8912E-02	3.831	.6651E-02	2.805	.4389E-02	2.160	.3346E-02	1.124	.1320E-02	.5541	.4865E-03	.2969	.2464E-03
18.00	5.399	.8410E-02	3.716	.6166E-02	2.657	.4020E-02	1.963	.3001E-02	.9634	.1150E-02	.4428	.4094E-03	.2243	.2015E-03
20.00	5.479	.8472E-02	3.582	.6053E-02	2.488	.3890E-02	1.790	.2866E-02	.8331	.1069E-02	.3553	.3667E-03	.1664	.1736E-03
22.00	5.419	.8426E-02	3.450	.5941E-02	2.299	.3739E-02	1.617	.2724E-02	.7149	.9904E-03	.2877	.3300E-03	.1244	.1501E-03
24.00	5.186	.8243E-02	3.327	.5834E-02	2.177	.3638E-02	1.483	.2609E-02	.6207	.9228E-03	.2341	.2977E-03	.9281E-01	.1296E-03
26.00	5.010	.8102E-02	3.147	.5674E-02	2.035	.3518E-02	1.357	.2496E-02	.5312	.8542E-03	.1870	.2660E-03	.6875E-01	.1116E-03
28.00	4.903	.8015E-02	3.005	.5544E-02	1.879	.3380E-02	1.232	.2378E-02	.4633	.7974E-03	.1508	.2389E-03	.5225E-01	.9727E-04
30.00	4.712	.8349E-02	2.831	.5718E-02	1.734	.3450E-02	1.084	.2370E-02	.3694	.7766E-03	.1188	.2253E-03	.3799E-01	.8813E-04
32.00	4.542	.7714E-02	2.645	.5201E-02	1.597	.3117E-02	.9647	.2104E-02	.3305	.6734E-03	.9493E-01	.1895E-03	.2833E-01	.7162E-04
34.00	4.286	.7494E-02	2.498	.5055E-02	1.463	.2983E-02	.8548	.1981E-02	.2832	.6234E-03	.7385E-01	.1672E-03	.2002E-01	.6021E-04
36.00	3.988	.7228E-02	2.275	.4824E-02	1.333	.2848E-02	.7528	.1859E-02	.2356	.5685E-03	.5766E-01	.1477E-03	.1490E-01	.5194E-04
38.00	3.729	.6990E-02	2.071	.4603E-02	1.176	.2675E-02	.6674	.1750E-02	.1956	.5181E-03	.4419E-01	.1293E-03	.1047E-01	.4354E-04
40.00	3.436	.6709E-02	1.961	.4479E-02	1.061	.2541E-02	.5920	.1648E-02	.1630	.4730E-03	.3397E-01	.1134E-03	.7512E-02	.3688E-04
42.00	3.171	.6446E-02	1.753	.4234E-02	.9366	.2387E-02	.5033	.1520E-02	.1343	.4293E-03	.2653E-01	.1002E-03	.5412E-02	.3131E-04
44.00	2.836	.6476E-02	1.551	.4232E-02	.8132	.2363E-02	.4281	.1489E-02	.1076	.4082E-03	.1943E-01	.9110E-04	.3627E-02	.2723E-04
46.00	2.621	.5860E-02	1.395	.3778E-02	.7107	.2079E-02	.3536	.1274E-02	.8598E-01	.3435E-03	.1434E-01	.7367E-04	.2312E-02	.2046E-04
48.00	2.432	.5645E-02	1.293	.3636E-02	.6447	.1980E-02	.3123	.1197E-02	.7266E-01	.3156E-03	.1079E-01	.6390E-04	.1782E-02	.1797E-04
50.00	2.136	.5290E-02	1.109	.3368E-02	.5215	.1781E-02	.2538	.1079E-02	.5479E-01	.2742E-03	.7695E-02	.5396E-04	.9974E-03	.1344E-04
52.00	2.045	.5177E-02	1.058	.3290E-02	.4897	.1726E-02	.2214	.1008E-02	.4808E-01	.2568E-03	.6266E-02	.4870E-04	.7604E-03	.1173E-04
54.00	1.724	.4753E-02	.8827	.3005E-02	.3909	.1542E-02	.1805	.9103E-03	.3361E-01	.2148E-03	.4079E-02	.3925E-04	.4802E-03	.9326E-05
56.00	1.492	.4421E-02	.7299	.2732E-02	.3238	.1403E-02	.1324	.7795E-03	.2571E-01	.1878E-03	.2702E-02	.3198E-04	.3049E-03	.7429E-05
58.00	1.258	.4314E-02	.6232	.2683E-02	.2558	.1325E-02	.1040	.7342E-03	.1817E-01	.1678E-03	.1914E-02	.2860E-04	.1537E-03	.5606E-05
60.00	1.068	.3741E-02	.5064	.2276E-02	.2061	.1119E-02	.8169E-01	.6123E-03	.1267E-01	.1318E-03	.1460E-02	.2351E-04	.9543E-04	.4157E-05
62.00	.9099	.3453E-02	.4356	.2111E-02	.1618	.9920E-03	.6889E-01	.5623E-03	.8608E-02	.1087E-03	.8428E-03	.1786E-04	.5849E-04	.3255E-05
64.00	.7272	.3087E-02	.3468	.1883E-02	.1262	.7672E-03	.4541E-01	.4565E-03	.6112E-02	.9158E-04	.4954E-03	.1369E-04	.2463E-04	.2112E-05
66.00	.6749	.2974E-02	.2718	.1667E-02	.9543E-01	.7618E-03	.3542E-01	.4032E-03	.5015E-02	.8296E-04	.3410E-03	.1136E-04	.2155E-04	.1975E-05
68.00	.5125	.2591E-02	.2334	.1545E-02	.6658E-03	.6658E-03	.2458E-01	.3359E-03	.3079E-02	.6500E-04	.1866E-03	.8403E-05	.1539E-04	.1670E-05
70.00	.4328	.2381E-02	.1730	.1330E-02	.5283E-01	.5668E-03	.2114E-01	.3115E-03	.2449E-02	.5797E-04	.1544E-03	.7644E-05	.0	.0
72.00	.3417	.2248E-02	.1280	.1216E-02	.4196E-01	.5367E-03	.1360E-01	.2654E-03	.1438E-02	.4719E-04	.4101E-04	.4186E-05	.0	.0
74.00	.2628	.1856E-02	.9704E-01	.9963E-03	.2895E-01	.4196E-03	.1467E-01	.2595E-03	.9797E-03	.3666E-04	.1287E-04	.2207E-05	.0	.0
76.00	.2383	.1767E-02	.1103	.1062E-02	.2864E-01	.4173E-03	.8349E-02	.1957E-03	.3266E-03	.2117E-04	.1287E-04	.2207E-05	.0	.0
78.00	.1802	.1537E-02	.6260E-01	.8003E-03	.1540E-01	.3061E-03	.5228E-02	.1549E-03	.6598E-04	.9799E-05	.0	.0	.0	.0
80.00	.1539	.1420E-02	.5582E-01	.7557E-03	.7857E-02	.2186E-03	.1170E-02	.7329E-04	.1166E-03	.1265E-04	.6434E-05	.1560E-05	.0	.0
82.00	.1160	.1233E-02	.1948E-01	.4464E-03	.2481E-02	.1228E-03	.7802E-03	.5984E-04	.0	.0	.0	.0	.0	.0
84.00	.2918E-01	.6183E-03	.8521E-02	.2952E-03	.7237E-03	.6634E-04	.1014E-02	.6823E-04	.0	.0	.0	.0	.0	.0
86.00	.1648E-01	.4647E-03	.4695E-02	.2192E-03	.8271E-03	.7092E-04	.0	.0	.0	.0	.0	.0	.0	.0
88.00	.1515E-01	.4455E-03	.6956E-03	.8436E-04	.3102E-03	.4343E-04	.7802E-04	.1892E-04	.0	.0	.0	.0	.0	.0
90.00	.1559E-02	.1429E-03	.3478E-03	.5965E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.1183E-02	.1323E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 23

Table 23

ϵ	$\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
	$\frac{d^2\sigma}{d\epsilon d\Omega}$													
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.2005E-02	.1621E-03	.1391E-02	.1193E-03	.1758E-02	.1034E-03	.6242E-03	.5352E-04	.2099E-03	.1697E-04	.1994E-03	.8688E-05	.1231E-03	.4722E-05
16.00	1.180	.4178E-02	.7594	.2961E-02	.4635	.1784E-02	.3939	.1429E-02	.2522	.6250E-03	.9949E-01	.2062E-03	.4128E-01	.5187E-04
18.00	1.686	.4700E-02	1.190	.3489E-02	.8376	.2257E-02	.6526	.1731E-02	.3613	.7041E-03	.1522	.2400E-03	.6470E-01	.1082E-03
20.00	1.693	.4709E-02	1.206	.3513E-02	.8737	.2305E-02	.6460	.1722E-02	.3381	.6811E-03	.1377	.2283E-03	.5317E-01	.9813E-04
22.00	1.694	.4711E-02	1.195	.3496E-02	.8647	.2293E-02	.6540	.1733E-02	.3007	.6424E-03	.1177	.2111E-03	.4128E-01	.8646E-04
24.00	1.683	.4695E-02	1.167	.3456E-02	.8361	.2255E-02	.5985	.1657E-02	.2773	.6169E-03	.9885E-01	.1934E-03	.3149E-01	.7551E-04
26.00	1.706	.4727E-02	1.128	.3397E-02	.7997	.2205E-02	.5686	.1615E-02	.2537	.5901E-03	.8279E-01	.1770E-03	.2366E-01	.6545E-04
28.00	1.605	.4586E-02	1.085	.3331E-02	.7578	.2147E-02	.5476	.1585E-02	.2232	.5534E-03	.6975E-01	.1625E-03	.1792E-01	.5697E-04
30.00	1.564	.4480E-02	1.078	.3529E-02	.7509	.2271E-02	.5286	.1655E-02	.2041	.5623E-03	.5801E-01	.1574E-03	.1305E-01	.5165E-04
32.00	1.576	.4544E-02	1.063	.3297E-02	.7147	.2085E-02	.4976	.1511E-02	.1828	.5008E-03	.4781E-01	.1345E-03	.9904E-02	.4235E-04
34.00	1.616	.4602E-02	1.057	.3289E-02	.6947	.2055E-02	.4614	.1455E-02	.1627	.4725E-03	.3907E-01	.1216E-03	.7124E-02	.3592E-04
36.00	1.663	.4668E-02	1.061	.3294E-02	.7010	.2065E-02	.4496	.1436E-02	.1421	.4415E-03	.3186E-01	.1098E-03	.4984E-02	.2612E-04
38.00	1.687	.4702E-02	1.027	.3242E-02	.6689	.2017E-02	.4154	.1381E-02	.1231	.4110E-03	.2558E-01	.9839E-04	.3768E-02	.2004E-04
40.00	1.750	.4788E-02	1.004	.3206E-02	.6264	.1952E-02	.3849	.1329E-02	.1070	.3833E-03	.2081E-01	.8875E-04	.2724E-02	.2222E-04
42.00	1.778	.4826E-02	1.005	.3206E-02	.6187	.1940E-02	.3466	.1261E-02	.9424E-01	.3596E-03	.1576E-01	.7724E-04	.1804E-02	.1807E-04
44.00	1.799	.4518E-02	1.001	.3399E-02	.6050	.2038E-02	.3261	.1300E-02	.8335E-01	.3593E-03	.1271E-01	.7368E-04	.1210E-02	.1573E-04
46.00	1.852	.4926E-02	.9815	.3169E-02	.5667	.1856E-02	.3157	.1204E-02	.7499E-01	.3208E-03	.9927E-02	.6129E-04	.8220E-03	.1220E-04
48.00	1.701	.4720E-02	.8951	.3026E-02	.5121	.1765E-02	.2627	.1098E-02	.5829E-01	.2828E-03	.7424E-02	.5301E-04	.5264E-03	.5764E-05
50.00	1.757	.4798E-02	.8973	.3030E-02	.4790	.1707E-02	.2480	.1067E-02	.4985E-01	.2615E-03	.5546E-02	.4581E-04	.3725E-03	.8213E-05
52.00	1.581	.4551E-02	.8111	.2880E-02	.4362	.1629E-02	.2045	.9688E-03	.4073E-01	.2364E-03	.4072E-02	.3926E-04	.1847E-03	.5784E-05
54.00	1.636	.4629E-02	.8012	.2863E-02	.4059	.1571E-02	.1948	.9456E-03	.3700E-01	.2253E-03	.3165E-02	.3461E-04	.1570E-03	.5332E-05
56.00	1.622	.4610E-02	.7615	.2791E-02	.3718	.1504E-02	.1715	.8872E-03	.2872E-01	.1985E-03	.2284E-02	.2940E-04	.9851E-04	.4224E-05
58.00	1.553	.4792E-02	.7092	.2862E-02	.3513	.1553E-02	.1440	.8638E-03	.2461E-01	.1953E-03	.1477E-02	.2512E-04	.3598E-04	.2712E-05
60.00	1.521	.4465E-02	.6577	.2672E-02	.3230	.1402E-02	.1418	.8069E-03	.2022E-01	.1666E-03	.1357E-02	.2267E-04	.1231E-04	.1493E-05
62.00	1.385	.4260E-02	.6069	.2492E-02	.2788	.1302E-02	.1123	.7178E-03	.1292E-01	.1332E-03	.4246E-03	.1268E-04	.6157E-05	.1056E-05
64.00	1.360	.4222E-02	.5407	.2352E-02	.2253	.1171E-02	.1038	.6501E-03	.1407E-01	.1138E-03	.1158E-03	.6620E-05	.6157E-05	.1056E-05
66.00	1.093	.3783E-02	.4488	.2143E-02	.2170	.1149E-02	.8583E-01	.6276E-03	.1409E-01	.1390E-03	.7720E-04	.5405E-05	.0	.0
68.00	1.017	.3649E-02	.4123	.2054E-02	.1686	.1013E-02	.7779E-01	.5975E-03	.4432E-02	.7798E-04	.5790E-04	.4681E-05	.0	.0
70.00	.7323	.3098E-02	.3488	.1889E-02	.1457	.9412E-03	.6928E-01	.5639E-03	.1213E-02	.4080E-04	.6434E-05	.1560E-05	.0	.0
72.00	.5542	.2863E-02	.3176	.1815E-02	.1220	.9154E-03	.4551E-01	.4856E-03	.9666E-03	.3869E-04	.6836E-05	.1709E-05	.0	.0
74.00	.4397	.2400E-02	.4475	.1313E-02	.1215	.6595E-03	.1599E-01	.2709E-03	.9331E-04	.1132E-04	.0	.0	.0	.0
76.00	1.231	.4016E-02	.1687	.1314E-02	.5066E-01	.5551E-03	.1459E-01	.2588E-03	.4665E-04	.8001E-05	.0	.0	.0	.0
78.00	.2945	.1564E-02	.1122	.1071E-02	.3608E-01	.4684E-03	.3589E-02	.1283E-03	.2333E-04	.5658E-05	.0	.0	.0	.0
80.00	.1410	.1359E-02	.6608E-01	.8222E-03	.5996E-02	.1910E-03	.0	.0	.0	.0	.0	.0	.0	.0
82.00	.6415E-01	.9168E-03	.1426E-01	.3819E-03	.5169E-03	.5667E-04	.0	.0	.0	.0	.0	.0	.0	.0
84.00	.1425E-01	.4222E-03	.1391E-02	.1193E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
86.00	.2227E-02	.1708E-03	.1739E-03	.4218E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88.00	.1114E-02	.1208E-03	.1739E-03	.4218E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.2227E-03	.5402E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.7100E-03	.1025E-03	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 24

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$		$\vartheta = 20^\circ$		$\vartheta = 30^\circ$		$\vartheta = 40^\circ$		$\vartheta = 50^\circ$		$\vartheta = 70^\circ$		$\vartheta = 90^\circ$		$\vartheta = 110^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
2.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8.000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20.00	.4232E-02	.2355E-03	.5391E-02	.2348E-03	.7444E-02	.2126E-03	.3277E-02	.1226E-03	.7931E-03	.3299E-04	.6434E-03	.1560E-04	.2309E-03	.6466E-05	.2309E-03	.6466E-05
22.00	.8130E-01	.1032E-02	.5339E-01	.7390E-03	.3164E-01	.4386E-03	.2653E-01	.3489E-03	.1680E-01	.1518E-03	.4491E-02	.4122E-04	.1179E-02	.1461E-04	.1179E-02	.1461E-04
24.00	.3985	.2285E-02	.2619	.1637E-02	.1844	.1059E-02	.1428	.8095E-03	.7525E-01	.3213E-03	.2432E-01	.9593E-04	.6145E-02	.3336E-04	.6145E-02	.3336E-04
26.00	.4720	.2487E-02	.3109	.1783E-02	.2284	.1179E-02	.1649	.8699E-03	.8027E-01	.3319E-03	.2486E-01	.9700E-04	.5717E-02	.3218E-04	.5717E-02	.3218E-04
28.00	.4996	.2558E-02	.3276	.1831E-02	.2397	.1207E-02	.1692	.8911E-03	.7950E-01	.3303E-03	.2338E-01	.9406E-04	.4673E-02	.2909E-04	.4673E-02	.2909E-04
30.00	.5116	.2751E-02	.3344	.1965E-02	.2446	.1296E-02	.1761	.9552E-03	.7482E-01	.3404E-03	.2036E-01	.5227E-04	.3582E-02	.2706E-04	.3582E-02	.2706E-04
32.00	.5034	.2568E-02	.3308	.1839E-02	.2380	.1203E-02	.1780	.9040E-03	.6970E-01	.3092E-03	.1688E-01	.7993E-04	.2617E-02	.2177E-04	.2617E-02	.2177E-04
34.00	.5134	.2594E-02	.3488	.1889E-02	.2506	.1235E-02	.1675	.8768E-03	.6552E-01	.2998E-03	.1524E-01	.7595E-04	.2096E-02	.1948E-04	.2096E-02	.1948E-04
36.00	.5094	.2583E-02	.3419	.1870E-02	.2361	.1198E-02	.1719	.8882E-03	.6247E-01	.2928E-03	.1221E-01	.6798E-04	.1456E-02	.1624E-04	.1456E-02	.1624E-04
38.00	.5488	.2682E-02	.3299	.1837E-02	.2418	.1213E-02	.1669	.8752E-03	.5780E-01	.2816E-03	.1100E-01	.6451E-04	.9389E-03	.1304E-04	.9389E-03	.1304E-04
40.00	.5116	.2589E-02	.3372	.1857E-02	.2495	.1232E-02	.1704	.8844E-03	.5486E-01	.2744E-03	.8718E-02	.5744E-04	.7204E-03	.1142E-04	.7204E-03	.1142E-04
42.00	.5352	.2648E-02	.3471	.1884E-02	.2394	.1207E-02	.1675	.8768E-03	.5272E-01	.2690E-03	.7167E-02	.5208E-04	.5695E-03	.1016E-04	.5695E-03	.1016E-04
44.00	.5178	.2767E-02	.3359	.1970E-02	.2418	.1288E-02	.1578	.9043E-03	.4754E-01	.2714E-03	.5441E-02	.4821E-04	.3729E-03	.8731E-05	.3729E-03	.8731E-05
46.00	.5657	.2723E-02	.3443	.1877E-02	.2494	.1231E-02	.1568	.8484E-03	.4136E-01	.2382E-03	.4381E-02	.4072E-04	.2309E-03	.6466E-05	.2309E-03	.6466E-05
48.00	.5662	.2724E-02	.3346	.1850E-02	.2409	.1210E-02	.1518	.8348E-03	.3480E-01	.2185E-03	.3603E-02	.3693E-04	.1262E-03	.4781E-05	.1262E-03	.4781E-05
50.00	.5956	.2793E-02	.3462	.1882E-02	.2440	.1218E-02	.1407	.8035E-03	.3084E-01	.2057E-03	.2779E-02	.3243E-04	.1047E-03	.4354E-05	.1047E-03	.4354E-05
52.00	.6208	.2852E-02	.3379	.1859E-02	.2227	.1164E-02	.1323	.7793E-03	.2762E-01	.1947E-03	.2059E-02	.2791E-04	.6773E-04	.3502E-05	.6773E-04	.3502E-05
54.00	.6553	.2930E-02	.3372	.1857E-02	.2107	.1132E-02	.1215	.7467E-03	.2512E-01	.1857E-03	.1486E-02	.2372E-04	.3079E-04	.2361E-05	.3079E-04	.2361E-05
56.00	.6874	.3001E-02	.3664	.1936E-02	.2179	.1151E-02	.1158	.7290E-03	.2396E-01	.1813E-03	.1460E-02	.2351E-04	.9236E-05	.1416E-05	.9236E-05	.1416E-05
58.00	.7298	.3286E-02	.3505	.2012E-02	.2051	.1187E-02	.1166	.7771E-03	.2416E-01	.1935E-03	.4717E-03	.1420E-04	.9813E-05	.1416E-05	.9813E-05	.1416E-05
60.00	.6943	.3016E-02	.3327	.1845E-02	.1898	.1074E-02	.9815E-01	.6712E-03	.1784E-01	.1565E-03	.2059E-03	.1827E-05	.0	.0	.0	.0
62.00	.7760	.3189E-02	.3522	.1898E-02	.1961	.1092E-02	.1052	.6548E-03	.2085E-01	.1692E-03	.9650E-04	.6043E-05	.0	.0	.0	.0
64.00	.8724	.3381E-02	.3855	.1986E-02	.1906	.1077E-02	.1202	.7426E-03	.1024E-01	.1185E-03	.1287E-04	.2207E-05	.0	.0	.0	.0
66.00	.8277	.3293E-02	.3501	.1892E-02	.1747	.1031E-02	.9909E-01	.6744E-03	.4035E-02	.7441E-04	.1287E-04	.2207E-05	.0	.0	.0	.0
68.00	.9747	.3574E-02	.3454	.1880E-02	.1829	.1055E-02	.1141	.7236E-03	.1096E-02	.3879E-04	.6434E-05	.1560E-05	.0	.0	.0	.0
70.00	1.217	.3592E-02	.3901	.1598E-02	.2400	.1208E-02	.1064	.6989E-03	.2799E-03	.1960E-04	.0	.0	.0	.0	.0	.0
72.00	.8962	.3641E-02	.3762	.2084E-02	.3869	.1630E-02	.6765E-01	.5920E-03	.9914E-04	.1239E-04	.0	.0	.0	.0	.0	.0
74.00	.7346	.3102E-02	.9189	.3066E-02	.2925	.1334E-02	.1654E-01	.2755E-03	.2333E-04	.5658E-05	.0	.0	.0	.0	.0	.0
76.00	1.618	.4604E-02	.5127	.2290E-02	.5924E-01	.6002E-03	.6006E-02	.1671E-03	.2333E-04	.5658E-05	.0	.0	.0	.0	.0	.0
78.00	.8468	.3331E-02	.1207	.1111E-02	.1158E-02	.2654E-03	.2107E-02	.9833E-04	.0	.0	.0	.0	.0	.0	.0	.0
80.00	.1060	.1179E-02	.1252E-01	.3579E-03	.6513E-02	.1990E-03	.2341E-03	.3278E-04	.0	.0	.0	.0	.0	.0	.0	.0
82.00	.3541E-01	.6812E-03	.1061E-01	.3294E-03	.3102E-03	.4343E-04	.7802E-04	.1892E-04	.0	.0	.0	.0	.0	.0	.0	.0
84.00	.9800E-02	.3583E-03	.1043E-02	.1033E-03	.4135E-03	.5015E-04	.7802E-04	.1892E-04	.0	.0	.0	.0	.0	.0	.0	.0
86.00	.6682E-03	.5357E-04	.0	.0	.1034E-03	.2508E-04	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
88.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
90.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
92.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
94.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
96.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
98.00	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
100.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

Table 25

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$	$\vartheta = 23^\circ$		$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	
18.00	.1461E-01	.3283E-03	.1186	.8265E-03	.9042E-01	.5565E-03	.6379E-01	.4061E-03	.3051E-01	.1535E-03	.1249E-01	.5160E-04	.4288E-02	.2091E-04	
20.00	.9122	.2594E-02	.1512	.5332E-03	.1195	.6399E-03	.8856E-01	.4784E-03	.4022E-01	.1763E-03	.1509E-01	.5671E-04	.4447E-02	.2130E-04	
22.00	1.236	.3020E-02	.1830	.1027E-02	.1400	.6925E-03	.1007	.5101E-03	.4564E-01	.1878E-03	.1631E-01	.5897E-04	.4614E-02	.2169E-04	
24.00	1.460	.3282E-02	.2112	.1103E-02	.1607	.7419E-03	.1134	.5413E-03	.5009E-01	.1567E-03	.1658E-01	.5944E-04	.4035E-02	.2028E-04	
26.00	1.590	.3425E-02	.2248	.1138E-02	.1655	.7529E-03	.1202	.5575E-03	.5394E-01	.2042E-03	.1647E-01	.5925E-04	.3570E-02	.1908E-04	
28.00	1.654	.3493E-02	.2438	.1185E-02	.1780	.7807E-03	.1316	.5832E-03	.5552E-01	.2071E-03	.1613E-01	.5864E-04	.3217E-02	.1811E-04	
30.00	1.716	.3559E-02	.2575	.1218E-02	.1956	.8184E-03	.1369	.5948E-03	.5586E-01	.2078E-03	.1458E-01	.5575E-04	.2537E-02	.1609E-04	
32.00	1.785	.3629E-02	.2737	.1256E-02	.2043	.8364E-03	.1414	.6046E-03	.5346E-01	.2033E-03	.1378E-01	.5420E-04	.2127E-02	.1473E-04	
34.00	1.853	.3698E-02	.2799	.1270E-02	.2009	.8295E-03	.1440	.6100E-03	.5362E-01	.2035E-03	.1223E-01	.5106E-04	.1646E-02	.1296E-04	
36.00	1.865	.3709E-02	.2921	.1297E-02	.2052	.8384E-03	.1488	.6201E-03	.5287E-01	.2021E-03	.1059E-01	.4752E-04	.1312E-02	.1157E-04	
38.00	1.942	.3785E-02	.2770	.1263E-02	.2093	.8468E-03	.1465	.6154E-03	.4842E-01	.1934E-03	.9450E-02	.4488E-04	.9322E-03	.9750E-05	
40.00	1.958	.3801E-02	.2881	.1288E-02	.2041	.8360E-03	.1398	.6012E-03	.4712E-01	.1908E-03	.7613E-02	.4028E-04	.6548E-03	.8172E-05	
42.00	1.957	.3800E-02	.2926	.1298E-02	.1998	.8271E-03	.1453	.6129E-03	.4451E-01	.1855E-03	.6147E-02	.3620E-04	.4916E-03	.7681E-05	
44.00	1.920	.3764E-02	.3072	.1330E-02	.2033	.8345E-03	.1421	.6061E-03	.4337E-01	.1831E-03	.4676E-02	.3157E-04	.3162E-03	.5678E-05	
46.00	1.925	.3769E-02	.3119	.1341E-02	.2147	.8575E-03	.1430	.6081E-03	.4000E-01	.1758E-03	.4165E-02	.2979E-04	.2815E-03	.5358E-05	
48.00	1.925	.3769E-02	.2988	.1312E-02	.2111	.8502E-03	.1394	.6003E-03	.3345E-01	.1608E-03	.3235E-02	.2626E-04	.1652E-03	.4105E-05	
50.00	1.912	.3756E-02	.3134	.1344E-02	.2093	.8466E-03	.1357	.5921E-03	.3008E-01	.1525E-03	.2562E-02	.2337E-04	.1040E-03	.3257E-05	
52.00	1.998	.3839E-02	.3290	.1377E-02	.2171	.8624E-03	.1419	.6056E-03	.2882E-01	.1492E-03	.2575E-02	.2345E-04	.7547E-04	.2774E-05	
54.00	2.043	.3883E-02	.3316	.1382E-02	.2162	.8605E-03	.1329	.5860E-03	.2496E-01	.1389E-03	.1565E-02	.1829E-04	.4661E-04	.2187E-05	
56.00	1.979	.3821E-02	.3548	.1430E-02	.2153	.8587E-03	.1266	.5719E-03	.2337E-01	.1344E-03	.1394E-02	.1724E-04	.2040E-04	.1442E-05	
58.00	1.969	.3812E-02	.3325	.1384E-02	.2098	.8476E-03	.1176	.5514E-03	.2133E-01	.1284E-03	.1373E-02	.1710E-04	.2040E-05	.4561E-06	
60.00	1.902	.3746E-02	.3571	.1434E-02	.2026	.8331E-03	.1083	.5291E-03	.1861E-01	.1199E-03	.7716E-03	.1282E-04	.2040E-05	.4561E-06	
62.00	1.864	.3709E-02	.3331	.1385E-02	.1908	.8085E-03	.1095	.5321E-03	.1661E-01	.1133E-03	.2217E-03	.6873E-05	.0	.0	
64.00	1.848	.3693E-02	.3543	.1429E-02	.1827	.7910E-03	.1063	.5243E-03	.1960E-01	.1231E-03	.8099E-04	.4155E-05	.2040E-05	.4561E-06	
66.00	1.965	.3808E-02	.3386	.1397E-02	.1857	.7975E-03	.1043	.5192E-03	.1600E-01	.1112E-03	.1279E-04	.1651E-05	.0	.0	
68.00	1.975	.3817E-02	.3645	.1449E-02	.1639	.7491E-03	.1094	.5317E-03	.7032E-02	.7372E-04	.4689E-04	.3161E-05	.6119E-05	.7900E-06	
70.00	1.959	.3802E-02	.2833	.1278E-02	.1605	.7414E-03	.6167E-01	.3593E-03	.2813E-02	.4662E-04	.2984E-04	.2522E-05	.3468E-04	.1881E-05	
72.00	2.023	.3864E-02	.3677	.1455E-02	.1327	.6741E-03	.1459	.6141E-03	.5564E-03	.2074E-04	.4604E-03	.9906E-05	.6242E-03	.7978E-05	
74.00	2.098	.3935E-02	.3974	.1513E-02	.3471	.1090E-02	.2163	.7477E-03	.5100E-03	.1985E-04	.860E-03	.1018E-04	.7710E-03	.8868E-05	
76.00	2.201	.4030E-02	.7182	.2034E-02	.1834	.7925E-03	.1064	.5244E-03	.3709E-03	.1693E-04	.5115E-03	.1044E-04	.7955E-03	.9007E-05	
78.00	2.007	.4051E-02	.3009	.1386E-02	.1219	.6801E-03	.2677E-01	.2769E-03	.6508E-03	.2361E-04	.5699E-03	.1160E-04	.9490E-03	.1036E-04	
80.00	1.719	.3749E-02	.2197	.1184E-02	.5769E-01	.4679E-03	.4245E-02	.1103E-03	.7158E-03	.2476E-04	.5385E-03	.1128E-04	.9812E-03	.1053E-04	
82.00	2.084	.4128E-02	.4494	.1694E-02	.6273E-02	.1543E-03	.4625E-02	.1151E-03	.3091E-03	.1627E-04	.5878E-03	.1178E-04	.9984E-03	.1062E-04	
84.00	1.803	.3839E-02	.6428E-02	.2026E-03	.2163E-02	.9061E-04	.1959E-02	.7490E-04	.1790E-03	.1238E-04	.6686E-03	.1257E-04	.1134E-02	.1132E-04	
86.00	2.413	.4441E-02	.7399E-02	.2173E-03	.1803E-02	.8271E-04	.2449E-02	.8375E-04	.2440E-03	.1446E-04	.7045E-03	.1290E-04	.1106E-02	.1118E-04	
88.00	1.608	.3626E-02	.2996E-01	.4373E-03	.4471E-02	.1303E-03	.1159E-01	.1822E-03	.1627E-03	.1180E-04	.5699E-03	.1160E-04	.9061E-03	.1012E-04	
90.00	4.876	.6314E-02	.7289E-01	.6821E-03	.1304	.7036E-03	.3899E-03	.3303E-04	.0	.0	.1032E-03	.4537E-05	.2061E-03	.4826E-05	
92.00	5.347	.6612E-02	.2790E-02	.1334E-03	.1536E-01	.2414E-03	.0	.0	.0	.0	.0	.0	.0	.0	
94.00	.6518	.2309E-02	.1540E-01	.3136E-03	.1442E-03	.2339E-04	.5442E-04	.1248E-04	.0	.0	.0	.0	.0	.0	
96.00	4.511	.6073E-02	.5094E-02	.1803E-03	.7211E-04	.1654E-04	.0	.0	.0	.0	.0	.0	.0	.0	
98.00	3.234	.5142E-02	.3639E-03	.4819E-04	.0	.0	.5442E-04	.1248E-04	.0	.0	.4487E-05	.1029E-05	.6441E-05	.8532E-06	
100.0	.4256E-01	.5899E-03	.2426E-03	.3935E-04	.7211E-04	.1654E-04	.5442E-04	.1248E-04	.0	.0	.8574E-05	.1456E-05	.4294E-05	.6966E-06	

Table 26

ϵ	$\frac{d^2\sigma}{d\epsilon d\Omega}$ $\vartheta = 23^\circ$		$\vartheta = 33^\circ$		$\vartheta = 43^\circ$		$\vartheta = 53^\circ$		$\vartheta = 73^\circ$		$\vartheta = 93^\circ$		$\vartheta = 113^\circ$	
(MeV)	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$	$\frac{mb}{MeV.sr}$	$\pm \Delta$
20.00			.6269	.1900E-02			.3050	.8878E-03	.1509	.1561E-02	.5671E-01	.1099E-03	.1800E-01	.4284E-04
22.00			.8569	.2222E-02			.4183	.1040E-02	.1871	.1739E-02	.7515E-01	.1266E-03	.2266E-01	.4808E-04
24.00			.9687	.2362E-02			.4893	.1125E-02	.2301	.1928E-02	.8191E-01	.1321E-03	.2317E-01	.4861E-04
26.00			1.069	.2481E-02			.5316	.1172E-02	.2524	.2019E-02	.8508E-01	.1347E-03	.2287E-01	.4829E-04
28.00			1.123	.2544E-02			.5630	.1206E-02	.2663	.2074E-02	.8294E-01	.1330E-03	.2063E-01	.4587E-04
30.00			1.168	.2594E-02			.5571	.1200E-02	.2449	.1989E-02	.7934E-01	.1300E-03	.1793E-01	.4276E-04
32.00			1.155	.2579E-02			.5686	.1212E-02	.2517	.2017E-02	.7325E-01	.1249E-03	.1490E-01	.3898E-04
34.00			1.214	.2645E-02			.5806	.1225E-02	.2197	.1884E-02	.6798E-01	.1204E-03	.1260E-01	.3585E-04
36.00			1.196	.2625E-02			.5715	.1215E-02	.2262	.1912E-02	.6152E-01	.1145E-03	.1036E-01	.3251E-04
38.00			1.205	.2635E-02			.5580	.1201E-02	.2204	.1887E-02	.5524E-01	.1085E-03	.8436E-02	.2933E-04
40.00			1.182	.2610E-02			.5445	.1186E-02	.2210	.1890E-02	.4909E-01	.1023E-03	.6788E-02	.2631E-04
42.00			1.175	.2602E-02			.5279	.1168E-02	.2068	.1828E-02	.4388E-01	.9671E-04	.5291E-02	.2323E-04
44.00			1.164	.2589E-02			.5333	.1174E-02	.1894	.1749E-02	.3865E-01	.9077E-04	.4208E-02	.2072E-04
46.00			1.150	.2574E-02			.5170	.1156E-02	.1758	.1685E-02	.3342E-01	.8440E-04	.3164E-02	.1796E-04
48.00			1.152	.2576E-02			.5064	.1144E-02	.1719	.1667E-02	.2888E-01	.7845E-04	.2156E-02	.1483E-04
50.00			1.139	.2562E-02			.4733	.1106E-02	.1567	.1591E-02	.2527E-01	.7339E-04	.1742E-02	.1333E-04
52.00			1.125	.2546E-02			.4597	.1090E-02	.1474	.1543E-02	.2055E-01	.6618E-04	.1177E-02	.1096E-04
54.00			1.112	.2531E-02			.4599	.1090E-02	.1344	.1474E-02	.1612E-01	.5862E-04	.8995E-03	.9570E-05
56.00			1.067	.2480E-02			.4373	.1063E-02	.1341	.1472E-02	.1280E-01	.5223E-04	.5956E-03	.7794E-05
58.00			1.022	.2427E-02			.4273	.1051E-02	.1118	.1344E-02	.9071E-02	.4397E-04	.5038E-03	.7168E-05
60.00			1.016	.2420E-02			.4153	.1036E-02	.1125	.1348E-02	.8866E-02	.4347E-04	.4406E-03	.6703E-05
62.00			.9693	.2363E-02			.3530	.1008E-02	.9016E-01	.1207E-02	.5993E-02	.3574E-04	.1346E-03	.3705E-05
64.00			.9690	.2363E-02			.3750	.9845E-03	.7529E-01	.1103E-02	.7801E-02	.4078E-04	.1673E-03	.4130E-05
66.00			.9629	.2355E-02			.3820	.9937E-03	.7400E-01	.1093E-02	.3947E-02	.2901E-04	.1632E-04	.1290E-05
68.00			.9711	.2365E-02			.3894	.1003E-02	.5881E-01	.5748E-03	.6620E-02	.3756E-04	.0	.0
70.00			1.009	.2411E-02			.3408	.9385E-03	.4686E-01	.8701E-03	.5179E-02	.3322E-04	.6119E-05	.7900E-06
72.00			1.039	.2447E-02			.2792	.8495E-03	.7174E-01	.1077E-02	.1816E-02	.1967E-04	.4079E-05	.6450E-06
74.00			1.076	.2490E-02			.2824	.8543E-03	.3845E-01	.7882E-03	.1279E-03	.5221E-05	.8159E-05	.9122E-06
76.00			1.008	.2410E-02			.2370	.7827E-03	.5493E-01	.9421E-03	.4689E-04	.3161E-05	.8159E-05	.9122E-06
78.00			.7899	.2246E-02			.2796	.8549E-03	.8572E-01	.1239E-02	.3141E-04	.2724E-05	.1288E-04	.1207E-05
80.00			.8993	.2396E-02			.3495	.1001E-02	.2959E-01	.7279E-03	.1346E-04	.1783E-05	.1503E-04	.1303E-05
82.00			.7576	.2199E-02			.2190	.7919E-03	.1361E-02	.1561E-03	.8974E-05	.1456E-05	.3435E-04	.1970E-05
84.00			.9897	.2514E-02			.3962	.1065E-02	.0	.0	.2692E-04	.5222E-05	.5153E-04	.2413E-05
86.00			.7509	.2189E-02			.6198	.1332E-02	.6803E-03	.1104E-03	.9872E-04	.4828E-05	.2491E-03	.5305E-05
88.00			1.876	.3460E-02			.9562	.1655E-02	.0	.0	.2513E-03	.7703E-05	.6055E-05	.8272E-05
90.00			1.525	.3120E-02			.1491E-01	.2066E-03	.3402E-03	.7804E-04	.8525E-03	.1419E-05	.1449E-02	.1280E-04
92.00			.4968	.1781E-02			.1959E-02	.7490E-04	.0	.0	.1270E-02	.1732E-04	.2156E-02	.1561E-04
94.00			.7862	.2240E-02			.1633E-02	.6838E-04	.1020E-02	.1352E-03	.1391E-02	.1812E-04	.2589E-02	.1711E-04
96.00			.1338	.9241E-03			.1360E-02	.6242E-04	.0	.0	.2104E-02	.2229E-04	.3489E-02	.1586E-04
98.00			.7156E-02	.2137E-03			.1088E-02	.5583E-04	.0	.0	.3029E-02	.2674E-04	.5179E-02	.2419E-04
100.0			.7641E-02	.2209E-03			.1366E-01	.1978E-03	.3402E-02	.2468E-03	.1580E-01	.6108E-04	.4219E-01	.6905E-04

Table 27

Table 27					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.128E-02	.670E-03
5.00	.180E-01	.224E-02	7.00	.143	.609E-02
9.00	13.6	.654E-01	11.0	28.8	.961E-01
13.0	24.2	.900E-01	15.0	22.2	.877E-01
17.0	20.0	.847E-01	19.0	18.2	.820E-01
21.0	16.4	.786E-01	23.0	15.6	.774E-01
25.0	14.3	.745E-01	27.0	12.9	.711E-01
29.0	12.3	.695E-01	31.0	11.3	.667E-01
33.0	10.0	.630E-01	35.0	9.53	.614E-01
37.0	8.65	.585E-01	39.0	7.81	.555E-01
41.0	6.83	.518E-01	43.0	6.28	.496E-01
45.0	5.58	.467E-01	47.0	4.88	.435E-01
49.0	4.49	.417E-01	51.0	3.99	.391E-01
53.0	3.57	.369E-01	55.0	2.95	.334E-01
57.0	2.53	.308E-01	59.0	2.08	.278E-01
61.0	1.69	.250E-01	63.0	1.44	.229E-01
65.0	1.18	.206E-01	67.0	.950	.184E-01
69.0	.739	.162E-01	71.0	.608	.146E-01
73.0	.484	.129E-01	75.0	.420	.115E-01
77.0	.343	.107E-01	79.0	.227	.851E-02
81.0	.140	.662E-02	83.0	.528E-01	.525E-02
85.0	.592E-01	.395E-02	87.0	.898E-02	.171E-02
89.0	.113E-01	.175E-02	91.0	.404E-02	.989E-03
93.0	.155E-02	.548E-03	95.0	.194E-03	.194E-03
97.0	.0	.0	99.0	.0	.0
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 28

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.789	.157E-01
17.0	6.26	.476E-01	19.0	6.89	.505E-01
21.0	6.30	.486E-01	23.0	6.15	.484E-01
25.0	5.83	.473E-01	27.0	5.30	.453E-01
29.0	5.14	.447E-01	31.0	4.92	.438E-01
33.0	4.65	.427E-01	35.0	4.63	.426E-01
37.0	4.56	.423E-01	39.0	4.38	.415E-01
41.0	4.15	.404E-01	43.0	4.20	.406E-01
45.0	4.09	.399E-01	47.0	3.83	.386E-01
49.0	3.69	.378E-01	51.0	3.59	.371E-01
53.0	3.24	.352E-01	55.0	3.11	.343E-01
57.0	3.16	.344E-01	59.0	2.96	.332E-01
61.0	2.71	.316E-01	63.0	2.44	.299E-01
65.0	2.13	.279E-01	67.0	1.91	.263E-01
69.0	1.80	.252E-01	71.0	1.43	.224E-01
73.0	1.27	.207E-01	75.0	1.39	.206E-01
77.0	.591	.138E-01	79.0	.321	.101E-01
81.0	.220	.783E-02	83.0	.221	.729E-02
85.0	.120E-01	.185E-02	87.0	.362E-02	.994E-03
89.0	.499E-03	.385E-03	91.0	.253E-03	.253E-03
93.0	.0	.0	95.0	.0	.0
97.0	.0	.0	99.0	.194E-03	.194E-03
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 29

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.0	.0	19.0	.482E-02	.110E-02
21.0	.188E-01	.264E-02	23.0	.812	.177E-01
25.0	1.62	.249E-01	27.0	1.66	.253E-01
29.0	1.71	.257E-01	31.0	1.67	.254E-01
33.0	1.64	.252E-01	35.0	1.64	.252E-01
37.0	1.63	.252E-01	39.0	1.57	.247E-01
41.0	1.51	.242E-01	43.0	1.58	.247E-01
45.0	1.53	.243E-01	47.0	1.49	.240E-01
49.0	1.50	.240E-01	51.0	1.52	.242E-01
53.0	1.51	.241E-01	55.0	1.45	.236E-01
57.0	1.56	.244E-01	59.0	1.55	.243E-01
61.0	1.42	.233E-01	63.0	1.55	.240E-01
65.0	1.77	.256E-01	67.0	1.74	.252E-01
69.0	1.56	.240E-01	71.0	2.24	.283E-01
73.0	1.70	.238E-01	75.0	3.07	.304E-01
77.0	1.12	.184E-01	79.0	1.10	.170E-01
81.0	.104	.588E-02	83.0	.483E-01	.389E-02
85.0	.546E-01	.389E-02	87.0	.495E-02	.121E-02
89.0	.0	.0	91.0	.0	.0
93.0	.0	.0	95.0	.0	.0
97.0	.0	.0	99.0	.0	.0
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 30

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.931E-05	.658E-05
9.00	.748E-04	.620E-04	11.0	.115E-03	.794E-04
13.0	.157E-02	.603E-03	15.0	.420E-01	.320E-02
17.0	.312	.952E-02	19.0	.753	.149E-01
21.0	.955	.169E-01	23.0	1.08	.180E-01
25.0	1.15	.186E-01	27.0	1.25	.194E-01
29.0	1.34	.201E-01	31.0	1.40	.206E-01
33.0	1.49	.212E-01	35.0	1.46	.210E-01
37.0	1.49	.213E-01	39.0	1.47	.211E-01
41.0	1.46	.210E-01	43.0	1.45	.209E-01
45.0	1.44	.208E-01	47.0	1.50	.212E-01
49.0	1.48	.211E-01	51.0	1.52	.213E-01
53.0	1.56	.216E-01	55.0	1.60	.219E-01
57.0	1.60	.219E-01	59.0	1.58	.217E-01
61.0	1.68	.223E-01	63.0	1.70	.224E-01
65.0	1.69	.223E-01	67.0	1.79	.228E-01
69.0	1.93	.235E-01	71.0	2.02	.241E-01
73.0	1.91	.235E-01	75.0	2.36	.260E-01
77.0	1.82	.217E-01	79.0	3.27	.285E-01
81.0	1.56	.192E-01	83.0	1.68	.183E-01
85.0	.768E-01	.441E-02	87.0	.881E-01	.488E-02
89.0	.237	.792E-02	91.0	.206	.723E-02
93.0	.473E-01	.297E-02	95.0	.196	.649E-02
97.0	1.62	.165E-01	99.0	.127E-01	.165E-02
101.	.200E-02	.574E-03	103.	.552E-03	.364E-03
105.	.287E-03	.193E-03	107.	.0	.0
109.	.0	.0			

Table 31

Table 31					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.280E-02	.741E-C3	19.0	1.10	.183E-01
21.0	4.05	.351E-C1	23.0	5.12	.394E-01
25.0	5.81	.420E-01	27.0	6.25	.436E-01
29.0	6.42	.443E-C1	31.0	6.53	.447E-01
33.0	6.54	.448E-01	35.0	6.59	.450E-01
37.0	6.59	.450E-C1	39.0	6.54	.449E-01
41.0	6.38	.443E-01	43.0	6.31	.441E-01
45.0	6.23	.438E-01	47.0	6.05	.431E-01
49.0	5.97	.428E-C1	51.0	5.99	.429E-01
53.0	5.93	.427E-C1	55.0	5.88	.425E-01
57.0	5.64	.416E-C1	59.0	5.47	.409E-01
61.0	5.39	.405E-01	63.0	5.19	.397E-01
65.0	5.17	.396E-01	67.0	5.18	.396E-01
69.0	5.24	.398E-01	71.0	5.11	.392E-C1
73.0	5.16	.396E-C1	75.0	4.90	.385E-01
77.0	4.90	.386E-C1	79.0	4.78	.375E-C1
81.0	4.23	.347E-01	83.0	5.49	.396E-01
85.0	5.39	.384E-C1	87.0	6.21	.422E-01
89.0	9.42	.493E-C1	91.0	6.13	.391E-01
93.0	7.56	.369E-C1	95.0	16.2	.595E-01
97.0	59.3	.101	99.0	.495	.982E-02
101.	26.9	.606E-C1	103.	.706	.885E-02
105.	.353E-01	.197E-C2	107.	.0	.0
109.	.0	.0			

Table 32

Table 32					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.141E-02	.611E-03
5.00	.182E-01	.194E-02	7.00	.131	.507E-02
9.00	9.66	.485E-01	11.0	21.3	.723E-01
13.0	19.0	.676E-01	15.0	16.4	.656E-01
17.0	14.8	.630E-01	19.0	13.5	.609E-01
21.0	12.1	.581E-01	23.0	11.5	.569E-01
25.0	10.7	.549E-01	27.0	9.55	.519E-01
29.0	9.15	.507E-01	31.0	8.44	.486E-01
33.0	7.51	.458E-01	35.0	7.04	.442E-01
37.0	6.45	.421E-01	39.0	5.77	.397E-01
41.0	5.02	.368E-01	43.0	4.62	.351E-01
45.0	4.10	.329E-01	47.0	3.54	.304E-01
49.0	3.35	.294E-01	51.0	2.93	.273E-01
53.0	2.67	.260E-01	55.0	2.18	.232E-01
57.0	1.85	.212E-01	59.0	1.50	.191E-01
61.0	1.20	.169E-01	63.0	1.02	.155E-01
65.0	.832	.139E-01	67.0	.666	.123E-01
69.0	.536	.109E-01	71.0	.442	.990E-02
73.0	.349	.873E-02	75.0	.296	.791E-02
77.0	.229	.683E-02	79.0	.157	.558E-02
81.0	.125	.483E-02	83.0	.661E-01	.356E-02
85.0	.422E-01	.279E-02	87.0	.228E-01	.199E-02
89.0	.200E-01	.180E-02	91.0	.512E-02	.908E-03
93.0	.561E-03	.251E-03	95.0	.0	.0
97.0	.0	.0	99.0	.0	.0
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 33

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.870	.155E-01
17.0	5.28	.381E-01	19.0	5.68	.396E-01
21.0	5.17	.380E-01	23.0	5.04	.377E-01
25.0	4.74	.366E-01	27.0	4.32	.350E-01
29.0	4.23	.347E-01	31.0	4.02	.338E-01
33.0	3.74	.325E-01	35.0	3.77	.325E-01
37.0	3.67	.319E-01	39.0	3.55	.313E-01
41.0	3.37	.304E-01	43.0	3.35	.301E-01
45.0	3.30	.297E-01	47.0	3.09	.286E-01
49.0	2.96	.278E-01	51.0	2.83	.269E-01
53.0	2.65	.259E-01	55.0	2.50	.250E-01
57.0	2.50	.248E-01	59.0	2.36	.239E-01
61.0	2.14	.227E-01	63.0	1.96	.215E-01
65.0	1.74	.201E-01	67.0	1.56	.190E-01
69.0	1.29	.171E-01	71.0	1.19	.162E-01
73.0	1.10	.153E-01	75.0	.904	.135E-01
77.0	.634	.113E-01	79.0	.398	.869E-02
81.0	.269	.698E-02	83.0	.114	.467E-02
85.0	.539E-01	.317E-02	87.0	.384E-01	.247E-02
89.0	.424E-01	.239E-02	91.0	.857E-03	.368E-03
93.0	.225E-03	.159E-03	95.0	.112E-03	.112E-03
97.0	.0	.0	99.0	.225E-03	.159E-03
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 34

Table 34					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.0	.0	19.0	.0	.0
21.0	.161E-01	.209E-02	23.0	.739	.145E-01
25.0	1.50	.207E-01	27.0	1.56	.211E-01
29.0	1.60	.213E-01	31.0	1.57	.212E-01
33.0	1.51	.207E-01	35.0	1.54	.208E-01
37.0	1.50	.206E-01	39.0	1.48	.204E-01
41.0	1.43	.200E-01	43.0	1.48	.202E-01
45.0	1.43	.198E-01	47.0	1.39	.194E-01
49.0	1.40	.194E-01	51.0	1.42	.194E-01
53.0	1.41	.192E-01	55.0	1.37	.189E-01
57.0	1.44	.192E-01	59.0	1.45	.192E-01
61.0	1.35	.185E-01	63.0	1.45	.191E-01
65.0	1.49	.189E-01	67.0	1.51	.188E-01
69.0	1.61	.194E-01	71.0	1.66	.192E-01
73.0	1.71	.192E-01	75.0	2.23	.214E-01
77.0	1.82	.187E-01	79.0	.819	.125E-01
81.0	.647	.103E-01	83.0	.628	.936E-02
85.0	.457E-01	.256E-02	87.0	.226E-02	.606E-03
89.0	.0	.0	91.0	.0	.0
93.0	.0	.0	95.0	.0	.0
97.0	.0	.0	99.0	.0	.0
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 35

Table 35					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.365E-04	.329E-04
9.00	.223E-04	.157E-04	11.0	.325E-03	.215E-03
13.0	.155E-02	.489E-03	15.0	.454E-01	.285E-02
17.0	.235	.702E-02	19.0	.533	.107E-01
21.0	.668	.120E-01	23.0	.769	.129E-01
25.0	.827	.134E-01	27.0	.890	.129E-01
29.0	.945	.143E-01	31.0	1.00	.147E-01
33.0	1.07	.152E-01	35.0	1.05	.150E-01
37.0	1.08	.152E-01	39.0	1.05	.149E-01
41.0	1.08	.151E-01	43.0	1.06	.149E-01
45.0	1.06	.148E-01	47.0	1.10	.151E-01
49.0	1.08	.149E-01	51.0	1.10	.150E-01
53.0	1.14	.151E-01	55.0	1.18	.153E-01
57.0	1.19	.153E-01	59.0	1.18	.152E-01
61.0	1.21	.153E-01	63.0	1.23	.154E-01
65.0	1.28	.157E-01	67.0	1.29	.154E-01
69.0	1.36	.157E-01	71.0	1.44	.162E-01
73.0	1.45	.162E-01	75.0	1.57	.167E-01
77.0	1.55	.160E-01	79.0	2.21	.186E-01
81.0	1.21	.140E-01	83.0	.798	.111E-01
85.0	.397	.775E-02	87.0	.323	.714E-02
89.0	.155	.527E-02	91.0	.111	.414E-02
93.0	.251E-01	.192E-02	95.0	.112	.369E-02
97.0	1.55	.124E-01	99.0	.301E-01	.184E-02
101.	.226E-02	.541E-03	103.	.774E-03	.365E-03
105.	.686E-03	.311E-03	107.	.0	.0
109.	.0	.0			

Table 36

ε	$\frac{d\sigma}{d\varepsilon}$		ε	$\frac{d\sigma}{d\varepsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.309E-02	.680E-03	19.0	.814	.133E-01
21.0	3.07	.258E-01	23.0	3.92	.291E-01
25.0	4.39	.308E-01	27.0	4.71	.320E-01
29.0	4.82	.323E-01	31.0	4.96	.328E-01
33.0	4.93	.327E-01	35.0	4.98	.328E-01
37.0	4.99	.328E-01	39.0	5.00	.328E-01
41.0	4.89	.324E-01	43.0	4.84	.321E-01
45.0	4.79	.319E-01	47.0	4.65	.314E-01
49.0	4.64	.312E-01	51.0	4.57	.309E-01
53.0	4.56	.308E-01	55.0	4.55	.307E-01
57.0	4.42	.302E-01	59.0	4.35	.298E-01
61.0	4.34	.296E-01	63.0	4.14	.288E-01
65.0	4.18	.288E-01	67.0	4.21	.288E-01
69.0	4.23	.287E-01	71.0	4.24	.287E-01
73.0	4.19	.283E-01	75.0	4.13	.283E-01
77.0	3.98	.277E-01	79.0	3.84	.272E-01
81.0	3.59	.251E-01	83.0	3.69	.255E-01
85.0	4.26	.274E-01	87.0	5.17	.297E-01
89.0	5.20	.296E-01	91.0	6.32	.303E-01
93.0	4.39	.248E-01	95.0	9.38	.338E-01
97.0	55.0	.747E-01	99.0	.719	.962E-02
101.	20.8	.488E-01	103.	.574	.654E-02
105.	.308E-01	.158E-02	107.	.0	.0
109.	.0	.0			

Table 37

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.232E-02	.505E-03
5.00	.330E-01	.212E-02	7.00	.153	.528E-02
9.00	8.70	.471E-01	11.0	20.0	.711E-01
13.0	17.8	.676E-01	15.0	16.3	.660E-01
17.0	14.7	.638E-01	19.0	13.6	.621E-01
21.0	12.2	.595E-01	23.0	11.6	.583E-01
25.0	10.6	.563E-01	27.0	9.60	.536E-01
29.0	9.12	.524E-01	31.0	8.40	.503E-01
33.0	7.54	.476E-01	35.0	7.08	.461E-01
37.0	6.45	.439E-01	39.0	5.79	.415E-01
41.0	5.04	.386E-01	43.0	4.67	.370E-01
45.0	4.14	.347E-01	47.0	3.54	.320E-01
49.0	3.33	.309E-01	51.0	2.92	.288E-01
53.0	2.66	.274E-01	55.0	2.17	.245E-01
57.0	1.85	.226E-01	59.0	1.49	.202E-01
61.0	1.19	.179E-01	63.0	1.01	.164E-01
65.0	.800	.146E-01	67.0	.690	.134E-01
69.0	.511	.115E-01	71.0	.418	.104E-01
73.0	.349	.938E-02	75.0	.282	.835E-02
77.0	.242	.765E-02	79.0	.156	.603E-02
81.0	.101	.477E-02	83.0	.568E-01	.350E-02
85.0	.239E-01	.226E-02	87.0	.761E-02	.121E-02
89.0	.305E-02	.812E-03	91.0	.132E-02	.474E-03
93.0	.650E-04	.311E-04	95.0	.450E-03	.272E-03
97.0	.335E-03	.187E-03	99.0	.870E-02	.570E-03
101.	.249E-01	.725E-03	103.	.391E-02	.257E-03
105.	.179E-03	.482E-04	107.	.382E-04	.191E-04
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 38

Table 38					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.313	.944E-02
17.0	4.75	.370E-01	19.0	5.91	.411E-01
21.0	5.52	.399E-01	23.0	5.38	.397E-01
25.0	5.06	.387E-01	27.0	4.60	.370E-01
29.0	4.44	.364E-01	31.0	4.25	.357E-01
33.0	4.00	.346E-01	35.0	3.99	.346E-01
37.0	3.90	.341E-01	39.0	3.78	.335E-01
41.0	3.58	.326E-01	43.0	3.58	.325E-01
45.0	3.57	.323E-01	47.0	3.30	.309E-01
49.0	3.22	.304E-01	51.0	3.07	.296E-01
53.0	2.83	.283E-01	55.0	2.73	.276E-01
57.0	2.73	.274E-01	59.0	2.57	.265E-01
61.0	2.33	.252E-01	63.0	2.11	.238E-01
65.0	1.95	.228E-01	67.0	1.72	.213E-01
69.0	1.43	.193E-01	71.0	1.21	.177E-01
73.0	1.02	.161E-01	75.0	1.13	.163E-01
77.0	.775	.133E-01	79.0	.415	.973E-02
81.0	.296	.795E-02	83.0	.116	.487E-02
85.0	.494E-01	.295E-02	87.0	.541E-02	.979E-03
89.0	.598E-03	.326E-03	91.0	.682E-03	.305E-03
93.0	.155E-03	.150E-03	95.0	.775E-05	.775E-05
97.0	.434E-04	.434E-04	99.0	.745E-04	.330E-04
101.	.199E-02	.333E-03	103.	.185E-02	.162E-03
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 39

Table 39					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.0	.0	19.0	.135E-01	.181E-02
21.0	.202E-01	.229E-02	23.0	.893	.163E-01
25.0	1.89	.236E-01	27.0	1.94	.240E-01
29.0	2.03	.245E-01	31.0	1.96	.242E-01
33.0	1.83	.233E-01	35.0	1.86	.236E-01
37.0	1.82	.232E-01	39.0	1.78	.230E-01
41.0	1.72	.225E-01	43.0	1.73	.226E-01
45.0	1.70	.224E-01	47.0	1.63	.218E-01
49.0	1.65	.219E-01	51.0	1.68	.220E-01
53.0	1.65	.218E-01	55.0	1.62	.215E-01
57.0	1.73	.222E-01	59.0	1.69	.219E-01
61.0	1.57	.211E-01	63.0	1.64	.214E-01
65.0	1.81	.224E-01	67.0	1.73	.217E-01
69.0	1.88	.226E-01	71.0	2.05	.234E-01
73.0	1.95	.224E-01	75.0	2.21	.234E-01
77.0	1.66	.202E-01	79.0	1.93	.212E-01
81.0	.727	.130E-01	83.0	.513	.104E-01
85.0	.560	.101E-01	87.0	.916E-01	.373E-02
89.0	.0	.0	91.0	.0	.0
93.0	.0	.0	95.0	.0	.0
97.0	.0	.0	99.0	.0	.0
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 40

Table 40					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.605E-05	.605E-05
9.00	.294E-04	.173E-04	11.0	.933E-04	.566E-04
13.0	.177E-02	.512E-03	15.0	.477E-01	.290E-02
17.0	.235	.719E-02	19.0	.515	.108E-01
21.0	.638	.121E-01	23.0	.724	.128E-01
25.0	.778	.133E-01	27.0	.861	.140E-01
29.0	.907	.144E-01	31.0	.962	.146E-01
33.0	1.04	.154E-01	35.0	.996	.151E-01
37.0	1.04	.154E-01	39.0	1.05	.154E-01
41.0	1.03	.153E-01	43.0	1.00	.150E-01
45.0	1.03	.152E-01	47.0	1.08	.155E-01
49.0	1.06	.154E-01	51.0	1.06	.154E-01
53.0	1.09	.155E-01	55.0	1.14	.159E-01
57.0	1.15	.159E-01	59.0	1.16	.158E-01
61.0	1.20	.161E-01	63.0	1.22	.162E-01
65.0	1.22	.162E-01	67.0	1.29	.164E-01
69.0	1.32	.165E-01	71.0	1.51	.176E-01
73.0	1.56	.178E-01	75.0	1.46	.174E-01
77.0	1.39	.160E-01	79.0	2.90	.216E-01
81.0	.779	.119E-01	83.0	.404	.815E-02
85.0	.565E-01	.321E-02	87.0	.697E-01	.375E-02
89.0	.154	.570E-02	91.0	.167	.557E-02
93.0	.361E-01	.242E-02	95.0	.134	.458E-02
97.0	1.48	.124E-01	99.0	.117	.384E-02
101.	.218E-02	.614E-03	103.	.676E-03	.367E-03
105.	.549E-03	.332E-03	107.	.263E-03	.195E-03
109.	.0	.0			

Table 41

Table 41					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00		.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.425E-02	.823E-03	19.0	.0	.144E-01
21.0	3.28	.274E-01	23.0	.915	.309E-01
25.0	4.66	.327E-01	27.0	4.17	.340E-01
29.0	5.16	.345E-01	31.0	5.02	.350E-01
33.0	5.28	.349E-01	35.0	5.31	.350E-01
37.0	5.35	.351E-01	39.0	5.32	.350E-01
41.0	5.21	.346E-01	43.0	5.32	.345E-01
45.0	5.12	.342E-01	47.0	5.17	.338E-01
49.0	4.95	.336E-01	51.0	4.99	.332E-01
53.0	4.83	.330E-01	55.0	4.85	.329E-01
57.0	4.75	.326E-01	59.0	4.81	.325E-01
61.0	4.71	.324E-01	63.0	4.73	.316E-01
65.0	4.49	.314E-01	67.0	4.53	.313E-01
69.0	4.55	.315E-01	71.0	4.49	.316E-01
73.0	4.51	.311E-01	75.0	4.61	.307E-01
77.0	4.08	.298E-01	79.0	4.38	.293E-01
81.0	4.18	.294E-01	83.0	4.01	.282E-01
85.0	3.56	.270E-01	87.0	3.90	.329E-01
89.0	6.78	.366E-01	91.0	5.43	.317E-01
93.0	7.74	.357E-01	95.0	5.37	.436E-01
97.0	54.1	.823E-01	99.0	11.9	.147E-01
101.	22.7	.508E-01	103.	1.51	.130E-01
105.	.538E-01	.206E-02	107.	3.53	.0
109.	.0	.0		.0	

Table 42

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.212E-02	.594E-03
5.00	.252E-01	.172E-02	7.00	.117	.427E-02
9.00	8.34	.431E-01	11.0	18.4	.635E-01
13.0	15.9	.597E-01	15.0	14.5	.581E-01
17.0	13.0	.559E-01	19.0	11.9	.543E-01
21.0	10.7	.521E-01	23.0	10.2	.512E-01
25.0	9.43	.495E-01	27.0	8.50	.472E-01
29.0	8.18	.464E-01	31.0	7.44	.444E-01
33.0	6.61	.418E-01	35.0	6.29	.408E-01
37.0	5.75	.390E-01	39.0	5.18	.369E-01
41.0	4.51	.344E-01	43.0	4.16	.330E-01
45.0	3.68	.310E-01	47.0	3.22	.289E-01
49.0	2.96	.276E-01	51.0	2.60	.258E-01
53.0	2.40	.247E-01	55.0	1.93	.220E-01
57.0	1.66	.204E-01	59.0	1.38	.185E-01
61.0	1.11	.165E-01	63.0	.967	.153E-01
65.0	.793	.138E-01	67.0	.655	.125E-01
69.0	.497	.108E-01	71.0	.415	.991E-02
73.0	.334	.864E-02	75.0	.281	.806E-02
77.0	.242	.738E-02	79.0	.156	.586E-02
81.0	.118	.505E-02	83.0	.775E-01	.401E-02
85.0	.442E-01	.308E-02	87.0	.309E-01	.249E-02
89.0	.191E-01	.184E-02	91.0	.114E-01	.136E-02
93.0	.889E-03	.412E-03	95.0	.896E-03	.413E-03
97.0	.598E-03	.314E-03	99.0	.341E-02	.224E-03
101.	.194E-01	.817E-03	103.	.271E-02	.163E-03
105.	.179E-03	.422E-04	107.	.266E-04	.162E-04
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 43

Table 43					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.257	.799E-02
17.0	3.81	.309E-01	19.0	4.58	.337E-01
21.0	4.29	.328E-01	23.0	4.20	.326E-01
25.0	3.96	.319E-01	27.0	3.62	.307E-01
29.0	3.51	.302E-01	31.0	3.33	.295E-01
33.0	3.10	.285E-01	35.0	3.17	.285E-01
37.0	3.07	.284E-01	39.0	2.95	.279E-01
41.0	2.83	.273E-01	43.0	2.88	.275E-01
45.0	2.78	.270E-01	47.0	2.61	.260E-01
49.0	2.55	.257E-01	51.0	2.45	.251E-01
53.0	2.23	.239E-01	55.0	2.12	.232E-01
57.0	2.14	.231E-01	59.0	2.01	.224E-01
61.0	1.84	.213E-01	63.0	1.71	.205E-01
65.0	1.52	.193E-01	67.0	1.34	.180E-01
69.0	1.16	.167E-01	71.0	.978	.152E-01
73.0	.900	.145E-01	75.0	.800	.135E-01
77.0	.615	.116E-01	79.0	.430	.964E-02
81.0	.218	.688E-02	83.0	.131	.531E-02
85.0	.645E-01	.373E-02	87.0	.518E-01	.312E-02
89.0	.230E-01	.194E-02	91.0	.726E-02	.106E-02
93.0	.391E-03	.260E-03	95.0	.416E-04	.416E-04
97.0	.142E-03	.138E-03	99.0	.234E-04	.149E-04
101.	.846E-03	.909E-04	103.	.191E-02	.348E-03
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 44

Table 44					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.00	.0	.0
13.00	.0	.0	15.00	.0	.0
17.00	.0	.0	19.00	.759E-02	.117E-02
21.00	.124E-01	.158E-02	23.00	.628	.127E-01
25.00	1.29	.182E-01	27.00	1.30	.182E-01
29.00	1.36	.186E-01	31.00	1.34	.186E-01
33.00	1.25	.180E-01	35.00	1.28	.183E-01
37.00	1.27	.182E-01	39.00	1.22	.178E-01
41.00	1.18	.175E-01	43.00	1.18	.176E-01
45.00	1.16	.174E-01	47.00	1.10	.169E-01
49.00	1.13	.172E-01	51.00	1.13	.172E-01
53.00	1.13	.171E-01	55.00	1.12	.170E-01
57.00	1.19	.175E-01	59.00	1.19	.174E-01
61.00	1.11	.168E-01	63.00	1.21	.175E-01
65.00	1.22	.175E-01	67.00	1.26	.177E-01
69.00	1.31	.179E-01	71.00	1.44	.186E-01
73.00	1.56	.192E-01	75.00	1.70	.196E-01
77.00	1.24	.166E-01	79.00	.796	.129E-01
81.00	.532	.109E-01	83.00	.230	.735E-02
85.00	.131	.525E-02	87.00	.231E-01	.215E-02
89.00	.0	.0	91.00	.0	.0
93.00	.0	.0	95.00	.0	.0
97.00	.0	.0	99.00	.0	.0
101.00	.0	.0	103.00	.0	.0
105.00	.0	.0	107.00	.0	.0

Table 45

ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.868E-05	.434E-05
9.00	.124E-03	.118E-03	11.0	.776E-04	.543E-04
13.0	.104E-02	.330E-03	15.0	.296E-01	.207E-02
17.0	.182	.586E-02	19.0	.431	.919E-02
21.0	.549	.104E-01	23.0	.613	.110E-01
25.0	.666	.115E-01	27.0	.718	.120E-01
29.0	.770	.124E-01	31.0	.805	.127E-01
33.0	.871	.133E-01	35.0	.865	.132E-01
37.0	.879	.133E-01	39.0	.875	.133E-01
41.0	.858	.132E-01	43.0	.861	.132E-01
45.0	.873	.133E-01	47.0	.919	.136E-01
49.0	.912	.135E-01	51.0	.926	.136E-01
53.0	.937	.137E-01	55.0	.962	.138E-01
57.0	1.01	.142E-01	59.0	1.02	.142E-01
61.0	1.04	.143E-01	63.0	1.04	.143E-01
65.0	1.08	.145E-01	67.0	1.09	.145E-01
69.0	1.16	.148E-01	71.0	1.15	.148E-01
73.0	1.32	.158E-01	75.0	1.33	.158E-01
77.0	1.35	.158E-01	79.0	1.56	.161E-01
81.0	1.99	.177E-01	83.0	.681	.101E-01
85.0	.247	.598E-02	87.0	.455E-01	.289E-02
89.0	.985E-01	.433E-02	91.0	.966E-01	.408E-02
93.0	.283E-01	.206E-02	95.0	.881E-01	.344E-02
97.0	1.12	.112E-01	99.0	.844	.957E-02
101.	.761E-03	.333E-03	103.	.108E-02	.354E-03
105.	.836E-04	.836E-04	107.	.0	.0

Table 46

Table 46					
ε	$\frac{d\sigma}{d\varepsilon}$		ε	$\frac{d\sigma}{d\varepsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.227E-02	.512E-03	19.0	.683	.116E-01
21.0	2.50	.223E-01	23.0	3.18	.252E-01
25.0	3.59	.268E-01	27.0	3.84	.277E-01
29.0	3.97	.282E-01	31.0	4.04	.285E-01
33.0	4.06	.286E-01	35.0	4.12	.289E-01
37.0	4.12	.289E-01	39.0	4.11	.289E-01
41.0	4.06	.288E-01	43.0	4.00	.285E-01
45.0	3.96	.284E-01	47.0	3.88	.281E-01
49.0	3.85	.280E-01	51.0	3.81	.278E-01
53.0	3.79	.277E-01	55.0	3.82	.278E-01
57.0	3.77	.276E-01	59.0	3.67	.272E-01
61.0	3.59	.269E-01	63.0	3.44	.263E-01
65.0	3.42	.261E-01	67.0	3.44	.261E-01
69.0	3.55	.265E-01	71.0	3.57	.266E-01
73.0	3.52	.263E-01	75.0	3.43	.259E-01
77.0	3.32	.255E-01	79.0	3.26	.253E-01
81.0	3.17	.249E-01	83.0	2.90	.233E-01
85.0	3.04	.238E-01	87.0	3.49	.254E-01
89.0	4.33	.280E-01	91.0	3.26	.235E-01
93.0	5.72	.298E-01	95.0	7.67	.324E-01
97.0	46.6	.726E-01	99.0	9.48	.330E-01
101.	3.52	.875E-02	103.	13.0	.379E-01
105.	.362E-01	.157E-02	107.	.0	.0

Table 47

Table 47					
ε	$\frac{d\sigma}{d\varepsilon}$		ε	$\frac{d\sigma}{d\varepsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.177E-02	.878E-03
3.00	.178E-01	.203E-02	7.00	.148	.674E-02
9.00	12.9	.674E-01	11.0	27.7	.952E-01
13.0	22.7	.923E-01	15.0	20.3	.897E-01
17.0	18.0	.868E-01	19.0	16.4	.846E-01
21.0	14.7	.817E-01	23.0	13.8	.803E-01
25.0	12.8	.777E-01	27.0	11.3	.733E-01
29.0	10.7	.720E-01	31.0	9.86	.693E-01
33.0	8.77	.655E-01	35.0	8.18	.632E-01
37.0	7.53	.610E-01	39.0	6.83	.581E-01
41.0	5.92	.540E-01	43.0	5.51	.522E-01
45.0	4.86	.491E-01	47.0	4.22	.456E-01
49.0	3.94	.441E-01	51.0	3.43	.410E-01
53.0	3.19	.396E-01	55.0	2.56	.353E-01
57.0	2.17	.324E-01	59.0	1.81	.296E-01
61.0	1.47	.266E-01	63.0	1.26	.245E-01
65.0	1.04	.222E-01	67.0	.871	.204E-01
69.0	.692	.181E-01	71.0	.556	.161E-01
73.0	.450	.145E-01	75.0	.344	.127E-01
77.0	.375	.132E-01	79.0	.226	.101E-01
81.0	.170	.849E-02	83.0	.107	.675E-02
85.0	.520E-01	.478E-02	87.0	.295E-01	.353E-02
89.0	.662E-02	.162E-02	91.0	.542E-02	.144E-02
93.0	.236E-02	.908E-03	95.0	.0	.0
97.0	.511E-04	.511E-04	99.0	.0	.0
101.	.403E-04	.403E-04	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 48

Table 48					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.0	.0	.0
13.0	.0	.0	15.0	.446	.152E-01
17.0	4.51	.449E-01	19.0	5.41	.483E-01
21.0	5.05	.472E-01	23.0	4.98	.475E-01
25.0	4.67	.464E-01	27.0	4.31	.450E-01
29.0	4.11	.438E-01	31.0	3.91	.428E-01
33.0	3.72	.422E-01	35.0	3.76	.426E-01
37.0	3.66	.422E-01	39.0	3.60	.421E-01
41.0	3.40	.405E-01	43.0	3.47	.415E-01
45.0	3.47	.416E-01	47.0	3.30	.405E-01
49.0	3.17	.398E-01	51.0	3.11	.394E-01
53.0	2.87	.378E-01	55.0	2.80	.373E-01
57.0	2.82	.375E-01	59.0	2.65	.362E-01
61.0	2.46	.349E-01	63.0	2.29	.335E-01
65.0	2.14	.324E-01	67.0	1.77	.294E-01
69.0	1.58	.276E-01	71.0	1.27	.248E-01
73.0	1.10	.228E-01	75.0	.980	.207E-01
77.0	1.30	.239E-01	79.0	.417	.135E-01
81.0	.183	.959E-02	83.0	.705E-01	.530E-02
85.0	.153E-01	.246E-02	87.0	.125E-02	.698E-03
89.0	.642E-03	.467E-03	91.0	.805E-04	.570E-04
93.0	.509E-03	.429E-03	95.0	.0	.0
97.0	.0	.0	99.0	.403E-04	.403E-04
101.	.0	.0	103.	.0	.0
105.	.0	.0	107.	.0	.0
109.	.0	.0	111.	.0	.0
113.	.0	.0	115.	.0	.0
117.	.0	.0	119.	.0	.0
121.	.0	.0			

Table 49

Table 49					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.00	.0	.0
13.00	.0	.0	15.00	.0	.0
17.00	.0	.0	19.00	.105E-01	.153E-02
21.00	.195E-01	.278E-02	23.00	.564	.163E-01
25.00	1.18	.232E-01	27.00	1.24	.238E-01
29.00	1.28	.243E-01	31.00	1.30	.246E-01
33.00	1.25	.243E-01	35.00	1.28	.247E-01
37.00	1.28	.247E-01	39.00	1.25	.245E-01
41.00	1.19	.238E-01	43.00	1.24	.244E-01
45.00	1.21	.241E-01	47.00	1.20	.241E-01
49.00	1.23	.245E-01	51.00	1.26	.249E-01
53.00	1.31	.256E-01	55.00	1.31	.256E-01
57.00	1.42	.268E-01	59.00	1.48	.273E-01
61.00	1.44	.269E-01	63.00	1.58	.282E-01
65.00	1.78	.297E-01	67.00	1.64	.285E-01
69.00	1.98	.311E-01	71.00	2.10	.320E-01
73.00	2.33	.332E-01	75.00	2.66	.341E-01
77.00	3.32	.377E-01	79.00	1.20	.224E-01
81.00	.112	.695E-02	83.00	.405E-01	.404E-02
85.00	.883E-02	.195E-02	87.00	.520E-03	.469E-03
89.00	.0	.0	91.00	.0	.0
93.00	.0	.0	95.00	.0	.0
97.00	.0	.0	99.00	.0	.0
101.00	.0	.0	103.00	.0	.0
105.00	.0	.0	107.00	.0	.0
109.00	.0	.0	111.00	.0	.0
113.00	.0	.0	115.00	.0	.0
117.00	.0	.0	119.00	.0	.0
121.00	.0	.0			

Table 50

Table 50					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.266E-04	.203E-04
9.00	.762E-04	.570E-04	11.0	.145E-03	.924E-04
13.0	.157E-02	.407E-03	15.0	.400E-01	.293E-02
17.0	.240	.896E-02	19.0	.654	.157E-01
21.0	1.05	.185E-01	23.0	1.26	.202E-01
25.0	1.42	.217E-01	27.0	1.54	.227E-01
29.0	1.62	.234E-01	31.0	1.67	.238E-01
33.0	1.75	.245E-01	35.0	1.76	.246E-01
37.0	1.82	.251E-01	39.0	1.80	.248E-01
41.0	1.82	.251E-01	43.0	1.81	.251E-01
45.0	1.77	.245E-01	47.0	1.84	.254E-01
49.0	1.85	.256E-01	51.0	1.86	.257E-01
53.0	1.94	.264E-01	55.0	2.06	.276E-01
57.0	2.07	.279E-01	59.0	2.19	.292E-01
61.0	2.23	.298E-01	63.0	2.31	.305E-01
65.0	2.46	.317E-01	67.0	2.50	.318E-01
69.0	2.54	.320E-01	71.0	2.72	.333E-01
73.0	2.57	.321E-01	75.0	3.06	.355E-01
77.0	3.00	.347E-01	79.0	3.62	.385E-01
81.0	2.90	.339E-01	83.0	4.15	.397E-01
85.0	2.27	.281E-01	87.0	1.06	.142E-01
89.0	.864	.126E-01	91.0	1.26	.135E-01
93.0	1.22	.921E-02	95.0	2.71	.134E-01
97.0	16.7	.361E-01	99.0	15.3	.716E-01
101.	.522	.490E-02	103.	.112E-01	.700E-03
105.	.169E-02	.345E-03	107.	.277E-04	.277E-04
109.	.0	.0			

Table 51

Table 51					
ϵ	$\frac{d\sigma}{d\epsilon}$		ϵ	$\frac{d\sigma}{d\epsilon}$	
(MeV)	(mb/MeV)	$\pm \Delta$	(MeV)	(mb/MeV)	$\pm \Delta$
1.00	.0	.0	3.00	.0	.0
5.00	.0	.0	7.00	.0	.0
9.00	.0	.0	11.00	.0	.0
13.0	.0	.0	15.0	.0	.0
17.0	.400E-02	.101E-02	19.0	.871	.243E-01
21.0	3.08	.460E-01	23.0	3.96	.522E-01
25.0	4.46	.557E-01	27.0	4.81	.580E-01
29.0	4.97	.590E-01	31.0	5.05	.594E-01
33.0	5.08	.597E-01	35.0	5.19	.603E-01
37.0	5.32	.612E-01	39.0	5.45	.621E-01
41.0	5.35	.614E-01	43.0	5.31	.611E-01
45.0	5.26	.608E-01	47.0	5.20	.602E-01
49.0	5.23	.602E-01	51.0	5.21	.598E-01
53.0	5.30	.603E-01	55.0	5.35	.604E-01
57.0	5.34	.604E-01	59.0	5.28	.596E-01
61.0	5.29	.594E-01	63.0	5.03	.573E-01
65.0	5.00	.567E-01	67.0	5.15	.573E-01
69.0	5.15	.566E-01	71.0	5.13	.565E-01
73.0	5.16	.572E-01	75.0	5.25	.570E-01
77.0	5.38	.571E-01	79.0	5.36	.593E-01
81.0	4.84	.528E-01	83.0	4.17	.465E-01
85.0	4.42	.473E-01	87.0	6.20	.554E-01
89.0	5.64	.523E-01	91.0	8.50	.640E-01
93.0	8.61	.536E-01	95.0	6.64	.459E-01
97.0	18.4	.877E-01	99.0	250.	.337
101.	20.6	.866E-01	103.	1.05	.149E-01
105.	.378E-01	.323E-02	107.	.0	.0
109.	.0	.0			

